

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Ute Tribal 08-04-D4				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT DUCHESNE				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR PETROGLYPH OPERATING CO						7. OPERATOR PHONE 208 685-7685				
8. ADDRESS OF OPERATOR 960 Broadway Avenue, Ste 500, Boise, ID, 83703						9. OPERATOR E-MAIL ppowell@pgei.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1-109-IND-5351			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Petroglyph Operating, Co., Inc.						14. SURFACE OWNER PHONE (if box 12 = 'fee') 208-685-7600				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 960 Broadway Ave., Suite 500, Boise, ID 83706						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		1412 FNL 636 FWL		SWNW	8	4.0 S	4.0 W	U		
Top of Uppermost Producing Zone		660 FNL 660 FWL		NWNW	8	4.0 S	4.0 W	U		
At Total Depth		660 FNL 660 FWL		NWNW	8	4.0 S	4.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 636			23. NUMBER OF ACRES IN DRILLING UNIT 4150				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1797			26. PROPOSED DEPTH MD: 9175 TVD: 9091				
27. ELEVATION - GROUND LEVEL 5778			28. BOND NUMBER LPM4138336			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8342				
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	20	14	0 - 53	5.0	Unknown	10.0	Class G	25	1.17	15.8
SURF	12.25	9.625	0 - 2668	36.0	J-55 ST&C	10.0	Class G	928	1.17	15.8
PROD	8.75	5.5	0 - 9175	17.0	P-110 LT&C	10.0	Class G	925	1.92	12.5
							Class G	847	1.46	13.4
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Ed Trotter				TITLE Agent			PHONE 435 789-4120			
SIGNATURE				DATE 02/26/2014			EMAIL edtrotter@easilink.com			
API NUMBER ASSIGNED 43013528740000				APPROVAL Permit Manager						

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-04-D4
SW NW, SEC 8, T4S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Elevation	TVD	MD
Rig KB=~13' above GGL	5791	0	0
Surface Formation = Uinta			
Uinta	5778	13	13
Green River	3590	2201	2230
Trona	2185	3606	3682
Mahogany Shale	1991	3800	3880
"B" Marker	468	5323	5407
"X" Marker	45	5746	5830
Douglas Creek Marker	-94	5885	5969
"B" Limestone	-556	6347	6431
Base Castle Peak Limestone	-1148	6939	7023
BSCARB	-1495	7286	7370
Wasatch	-1783	7574	7658
Formation at TD: Wasatch Rig TD	-3300	9091	9175

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Elevation	TVD	MD
Base of moderately saline ground water*	not present	6050	0	0
Oil/Gas	Douglas Creek	-94	5885	5969
Oil/Gas	Castle Peak	-1148	6939	7023
Oil/Gas	Wasatch	-1783	7574	7658

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight	Grade	Thread
Conductor	20"	14"	surface	53'	steel	Cond'r	none
Surface	12-1/4"	9-5/8"	surface	2668'	36 lb/ft	J-55	STC
Production	8-3/4"	5-1/2"	surface	9175'	17 lb/ft	P-110	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	12-1/4"	9-5/8"	2,020 psi	3,520 psi	394,000 lb
Production	8-3/4"	5-1/2"	7,460 psi	10,640 psi	445,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 5407' MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 ----- 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 ----- 2668	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	928 ----- 1,086	30%	15.8	1.17
Production Lead	0 ----- 5407	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	925 ----- 1,776	30%	12.5	1.92
Production Tail	5407 ----- 9175	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	847 ----- 1,237	30%	13.4	1.46

- The 9-5/8" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 2668' MD.

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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 11", 3000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- All BOPE connections subjected to well pressure will be flanged, welded or clamped.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 3,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to the standards of Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- Surface hole will be drilled with a rotary drill rig.
- Operator will not use BOPE while drilling surface hole to accommodate a 12-1/4" bit.
- The surface hole will be drilled with a fresh water polymer system from 0' to 2668'. All cutting shall be directed to pit.
- BLM will be given 24 hour notice of running and cementing surface casing.

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B. PRODUCTION HOLE

- Drilling of production hole shall not commence until surface cement has set long enough to achieve 500 psi compressive strength at Surface Casing Shoe.
- Prior to drilling out of surface, Surface Casing shall be pressure tested to 587 psi (0.22 psi per foot) and hold for 30 minutes with a less than 10% decline.
- The production hole shall be drilled with a freshwater polymer system from 2668' to 9175'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Potassium Chloride (KCl) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 9.8-9.9 lbs/gal. although mud weight up to 12lbs/gal may be used if necessary to prevent wellbore wall instability due to the Wasatch red beds.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 12lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- Returns shall be sent through a mud-gas separator.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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7. EVALUATION PROGRAM:

Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR only)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

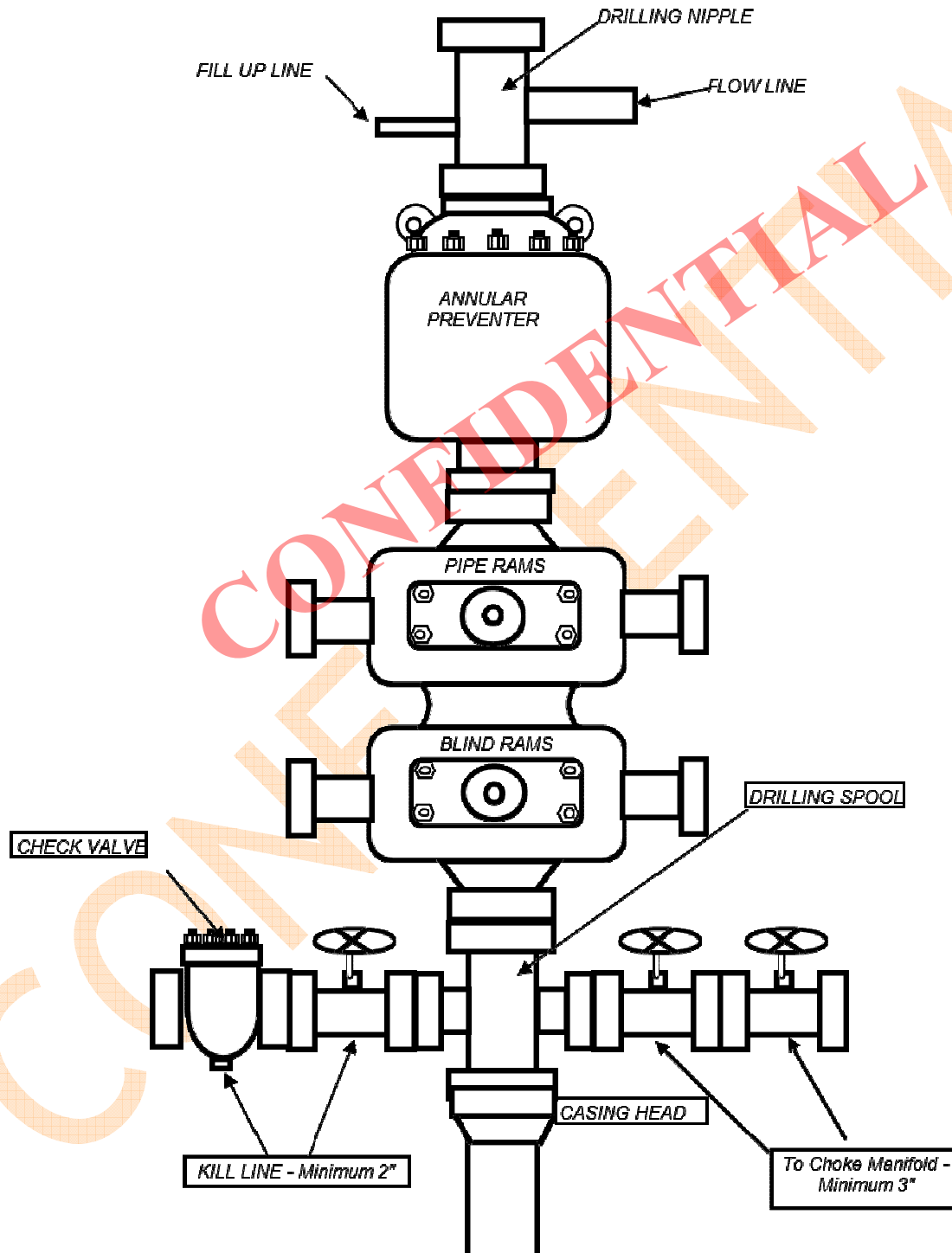
- Operator anticipates Bottom Hole Temperatures around 230°F, which was recorded in nearby wells by other operators.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 3945 PSI (0.43PSI/ft gradient).
- Normally pressured zones are possible around the Trona Marker (3682') and below.

9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- Directional drilling will kick off inside Surface Casing hole to allow wellbore to lie within the drilling window at all hydrocarbon bearing intervals.
- Directional drilling plan is attached.

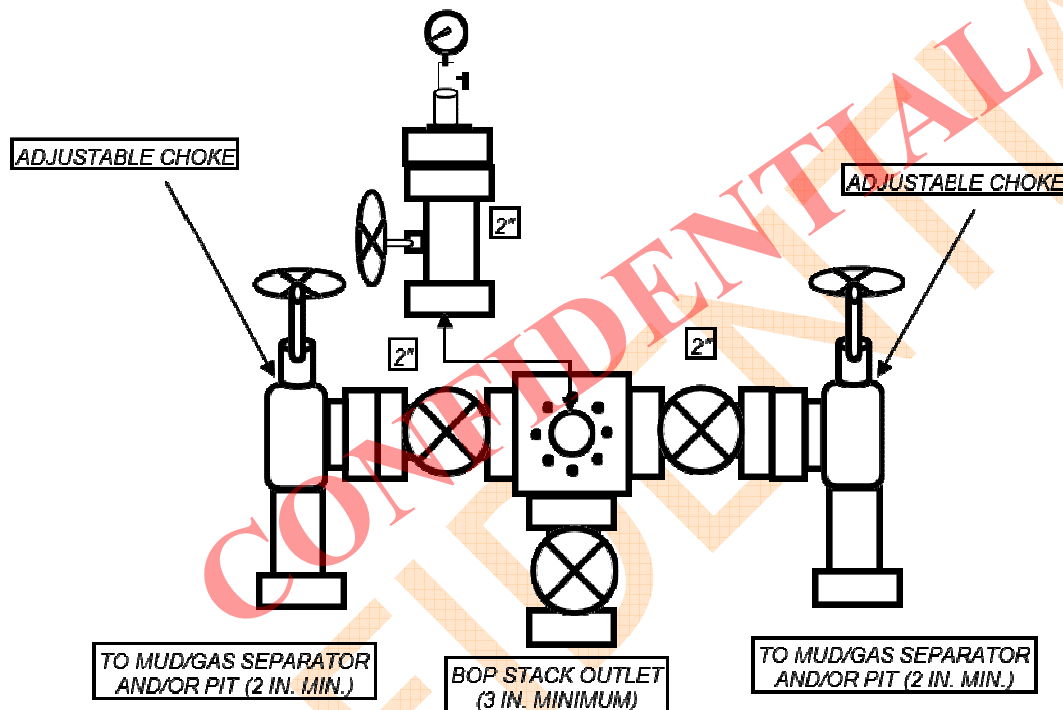
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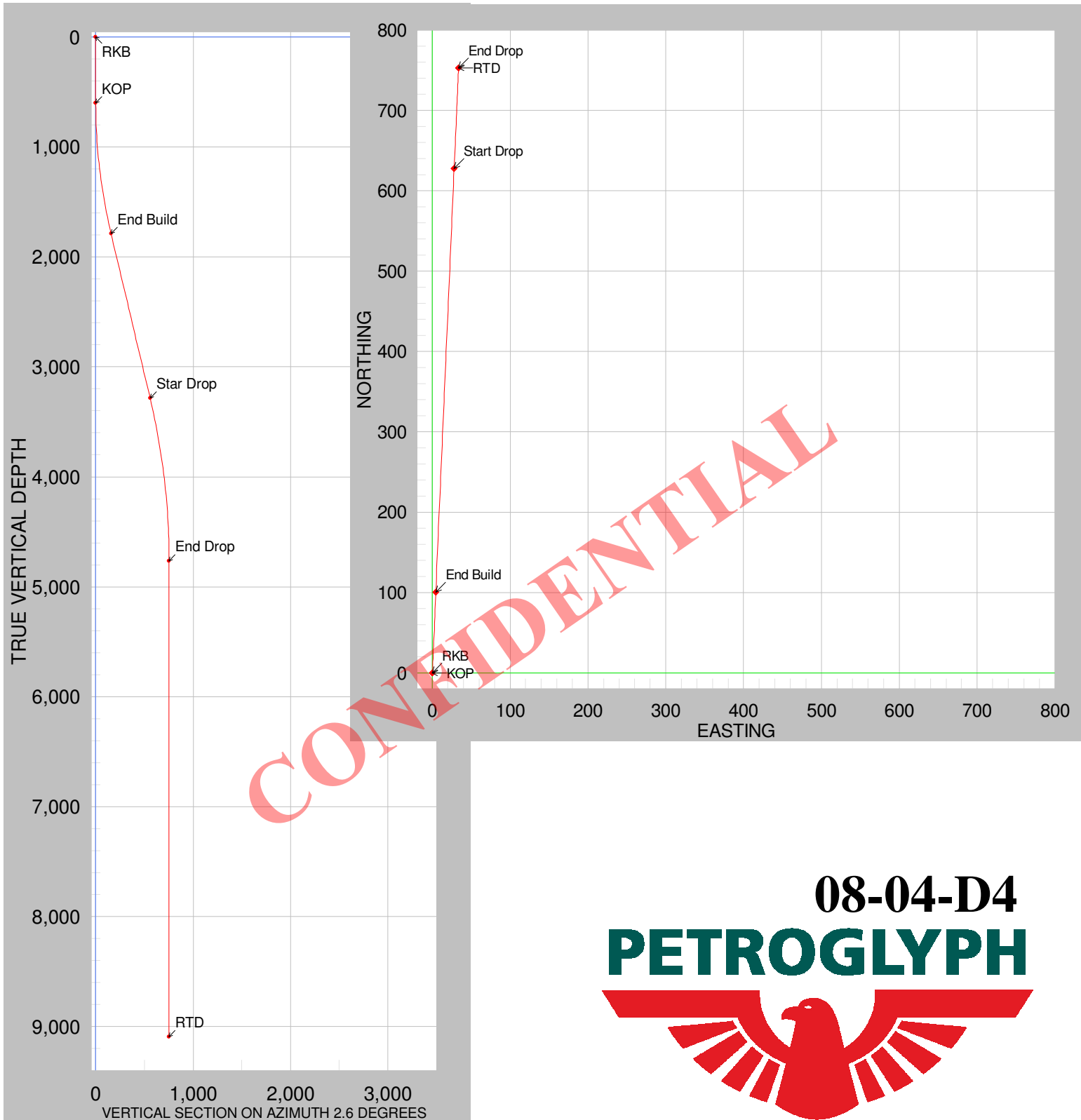
TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



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TYPICAL 3,000 p.s.i. CHOKE MANIFOLD





08-04-D4
PETROGLYPH



#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1800.00	15.00	2.60	1786.34	156.02	7.08	1.25	156.18
3	Star Drop	Tangent	3350.00	15.00	2.60	3283.52	556.78	25.28	0.00	557.35
4	End Drop	Drop	4850.00	0.00	0.00	4766.45	751.81	34.14	1.00	752.58
5	RTD	Vertical	9175.00	0.00	0.00	9091.45	751.81	34.14	0.00	752.58

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1			Units feet, %/100ft County State Country			11:07 Friday, February 07, 2014 Page 1 of 6 Vertical Section Azimuth 2.6 Survey Calculation Method Minimum Curvature Database Access				
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z			Lat Long Ref Surface Long Surface Lat Ground Level			
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	2.6	650.00	0.27	0.01	1.25	0.27			
700.00	1.25	2.6	699.99	1.09	0.05	1.25	1.09			
750.00	1.88	2.6	749.97	2.45	0.11	1.25	2.45			
800.00	2.50	2.6	799.94	4.36	0.20	1.25	4.36			
850.00	3.13	2.6	849.88	6.81	0.31	1.25	6.82			
900.00	3.75	2.6	899.79	9.80	0.45	1.25	9.81			
950.00	4.38	2.6	949.66	13.34	0.61	1.25	13.36			
1000.00	5.00	2.6	999.49	17.42	0.79	1.25	17.44			
1050.00	5.63	2.6	1049.28	22.05	1.00	1.25	22.07			
1100.00	6.25	2.6	1099.01	27.22	1.24	1.25	27.24			
1150.00	6.88	2.6	1148.68	32.92	1.50	1.25	32.96			
1200.00	7.50	2.6	1198.29	39.17	1.78	1.25	39.21			
1250.00	8.13	2.6	1247.82	45.96	2.09	1.25	46.01			
1300.00	8.75	2.6	1297.28	53.29	2.42	1.25	53.35			
1350.00	9.38	2.6	1346.66	61.16	2.78	1.25	61.22			
1400.00	10.00	2.6	1395.94	69.56	3.16	1.25	69.64			
1450.00	10.63	2.6	1445.14	78.51	3.56	1.25	78.59			
1500.00	11.25	2.6	1494.23	87.98	4.00	1.25	88.07			
1550.00	11.88	2.6	1543.21	97.99	4.45	1.25	98.10			
1600.00	12.50	2.6	1592.09	108.54	4.93	1.25	108.65			
1650.00	13.13	2.6	1640.84	119.62	5.43	1.25	119.74			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country			11:07 Friday, February 07, 2014 Page 2 of 6 Vertical Section Azimuth 2.6 Survey Calculation Method Minimum Curvature Database Access			
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z				Lat Long Ref Surface Long Surface Lat Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
1700.00	13.75	2.6	1689.47	131.22	5.96	1.25	131.36			
1750.00	14.38	2.6	1737.97	143.36	6.51	1.25	143.51			
*** END BUILD (at MD = 1800.00)										
1800.00	15.00	2.6	1786.34	156.02	7.09	1.25	156.18			
1850.00	15.00	2.6	1834.64	168.95	7.67	0.00	169.13			
1900.00	15.00	2.6	1882.93	181.88	8.26	0.00	182.07			
1950.00	15.00	2.6	1931.23	194.81	8.85	0.00	195.01			
2000.00	15.00	2.6	1979.52	207.73	9.43	0.00	207.95			
2050.00	15.00	2.6	2027.82	220.66	10.02	0.00	220.89			
2100.00	15.00	2.6	2076.12	233.59	10.61	0.00	233.83			
2150.00	15.00	2.6	2124.41	246.52	11.19	0.00	246.77			
2200.00	15.00	2.6	2172.71	259.44	11.78	0.00	259.71			
2250.00	15.00	2.6	2221.01	272.37	12.37	0.00	272.65			
2300.00	15.00	2.6	2269.30	285.30	12.96	0.00	285.59			
2350.00	15.00	2.6	2317.60	298.23	13.54	0.00	298.54			
2400.00	15.00	2.6	2365.89	311.16	14.13	0.00	311.48			
2450.00	15.00	2.6	2414.19	324.08	14.72	0.00	324.42			
2500.00	15.00	2.6	2462.49	337.01	15.30	0.00	337.36			
2550.00	15.00	2.6	2510.78	349.94	15.89	0.00	350.30			
2600.00	15.00	2.6	2559.08	362.87	16.48	0.00	363.24			
2650.00	15.00	2.6	2607.38	375.79	17.06	0.00	376.18			
2700.00	15.00	2.6	2655.67	388.72	17.65	0.00	389.12			
2750.00	15.00	2.6	2703.97	401.65	18.24	0.00	402.06			
2800.00	15.00	2.6	2752.26	414.58	18.83	0.00	415.00			
2850.00	15.00	2.6	2800.56	427.50	19.41	0.00	427.94			
2900.00	15.00	2.6	2848.86	440.43	20.00	0.00	440.89			
2950.00	15.00	2.6	2897.15	453.36	20.59	0.00	453.83			
3000.00	15.00	2.6	2945.45	466.29	21.17	0.00	466.77			
3050.00	15.00	2.6	2993.75	479.21	21.76	0.00	479.71			
3100.00	15.00	2.6	3042.04	492.14	22.35	0.00	492.65			
3150.00	15.00	2.6	3090.34	505.07	22.94	0.00	505.59			
3200.00	15.00	2.6	3138.64	518.00	23.52	0.00	518.53			
3250.00	15.00	2.6	3186.93	530.93	24.11	0.00	531.47			
3300.00	15.00	2.6	3235.23	543.85	24.70	0.00	544.41			

08-04-D4, Plan 1

Operator		Units feet, %/100ft		11:07 Friday, February 07, 2014 Page 3 of 6		
Field		County		Vertical Section Azimuth 2.6		
Well Name 08-04-D4		State		Survey Calculation Method Minimum Curvature		
Plan 1		Country		Database Access		
Location				MapZone		Lat Long Ref
Site				SurfaceX		Surface Long
Slot Name	UWI			SurfaceY		Surface Lat
Well Number	API			Z Datum		
Project				Surface Z		Ground Level
DIRECTIONAL WELL PLAN						
MD*	INC*	AZI*	TVD*	N*	E*	DLS*
ft	deg	deg	ft	ft	ft	%/100ft
						V. S.*
						ft
						MapE*
						ft
						MapN* SysTVD*
						ft
						ft
*** STAR DROP (at MD = 3350.00)						
3350.00	15.00	2.6	3283.52	556.78	25.28	0.00
3400.00	14.50	2.6	3331.88	569.50	25.86	1.00
3450.00	14.00	2.6	3380.34	581.79	26.42	1.00
3500.00	13.50	2.6	3428.90	593.66	26.96	1.00
3550.00	13.00	2.6	3477.57	605.11	27.48	1.00
3600.00	12.50	2.6	3526.34	616.14	27.98	1.00
3650.00	12.00	2.6	3575.20	626.73	28.46	1.00
3700.00	11.50	2.6	3624.15	636.91	28.92	1.00
3750.00	11.00	2.6	3673.19	646.65	29.36	1.00
3800.00	10.50	2.6	3722.32	655.97	29.79	1.00
3850.00	10.00	2.6	3771.52	664.85	30.19	1.00
3900.00	9.50	2.6	3820.79	673.31	30.58	1.00
3950.00	9.00	2.6	3870.14	681.34	30.94	1.00
4000.00	8.50	2.6	3919.56	688.94	31.28	1.00
4050.00	8.00	2.6	3969.04	696.11	31.61	1.00
4100.00	7.50	2.6	4018.59	702.84	31.92	1.00
4150.00	7.00	2.6	4068.19	709.15	32.20	1.00
4200.00	6.50	2.6	4117.84	715.02	32.47	1.00
4250.00	6.00	2.6	4167.54	720.46	32.72	1.00
4300.00	5.50	2.6	4217.29	725.46	32.94	1.00
4350.00	5.00	2.6	4267.08	730.03	33.15	1.00
4400.00	4.50	2.6	4316.91	734.17	33.34	1.00
4450.00	4.00	2.6	4366.77	737.87	33.51	1.00
4500.00	3.50	2.6	4416.67	741.13	33.65	1.00
4550.00	3.00	2.6	4466.59	743.97	33.78	1.00
4600.00	2.50	2.6	4516.53	746.36	33.89	1.00
4650.00	2.00	2.6	4566.49	748.32	33.98	1.00
4700.00	1.50	2.6	4616.47	749.85	34.05	1.00
4750.00	1.00	2.6	4666.45	750.94	34.10	1.00
4800.00	0.50	2.6	4716.45	751.59	34.13	1.00
*** END DROP (at MD = 4850.00)						
4850.00	0.00	0.0	4766.45	751.81	34.14	1.00
4900.00	0.00	0.0	4816.45	751.81	34.14	0.00
4950.00	0.00	0.0	4866.45	751.81	34.14	0.00

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator Field Well Name 08-04-D4 Plan 1				Units feet, %/100ft County State Country			11:07 Friday, February 07, 2014 Page 4 of 6 Vertical Section Azimuth 2.6 Survey Calculation Method Minimum Curvature Database Access			
Location Site Slot Name Well Number Project		UWI API		MapZone SurfaceX SurfaceY Z Datum Surface Z		Lat Long Ref Surface Long Surface Lat Ground Level				
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
5000.00	0.00	0.0	4916.45	751.81	34.14	0.00	752.58			
5050.00	0.00	0.0	4966.45	751.81	34.14	0.00	752.58			
5100.00	0.00	0.0	5016.45	751.81	34.14	0.00	752.58			
5150.00	0.00	0.0	5066.45	751.81	34.14	0.00	752.58			
5200.00	0.00	0.0	5116.45	751.81	34.14	0.00	752.58			
5250.00	0.00	0.0	5166.45	751.81	34.14	0.00	752.58			
5300.00	0.00	0.0	5216.45	751.81	34.14	0.00	752.58			
5350.00	0.00	0.0	5266.45	751.81	34.14	0.00	752.58			
5400.00	0.00	0.0	5316.45	751.81	34.14	0.00	752.58			
5450.00	0.00	0.0	5366.45	751.81	34.14	0.00	752.58			
5500.00	0.00	0.0	5416.45	751.81	34.14	0.00	752.58			
5550.00	0.00	0.0	5466.45	751.81	34.14	0.00	752.58			
5600.00	0.00	0.0	5516.45	751.81	34.14	0.00	752.58			
5650.00	0.00	0.0	5566.45	751.81	34.14	0.00	752.58			
5700.00	0.00	0.0	5616.45	751.81	34.14	0.00	752.58			
5750.00	0.00	0.0	5666.45	751.81	34.14	0.00	752.58			
5800.00	0.00	0.0	5716.45	751.81	34.14	0.00	752.58			
5850.00	0.00	0.0	5766.45	751.81	34.14	0.00	752.58			
5900.00	0.00	0.0	5816.45	751.81	34.14	0.00	752.58			
5950.00	0.00	0.0	5866.45	751.81	34.14	0.00	752.58			
6000.00	0.00	0.0	5916.45	751.81	34.14	0.00	752.58			
6050.00	0.00	0.0	5966.45	751.81	34.14	0.00	752.58			
6100.00	0.00	0.0	6016.45	751.81	34.14	0.00	752.58			
6150.00	0.00	0.0	6066.45	751.81	34.14	0.00	752.58			
6200.00	0.00	0.0	6116.45	751.81	34.14	0.00	752.58			
6250.00	0.00	0.0	6166.45	751.81	34.14	0.00	752.58			
6300.00	0.00	0.0	6216.45	751.81	34.14	0.00	752.58			
6350.00	0.00	0.0	6266.45	751.81	34.14	0.00	752.58			
6400.00	0.00	0.0	6316.45	751.81	34.14	0.00	752.58			
6450.00	0.00	0.0	6366.45	751.81	34.14	0.00	752.58			
6500.00	0.00	0.0	6416.45	751.81	34.14	0.00	752.58			
6550.00	0.00	0.0	6466.45	751.81	34.14	0.00	752.58			
6600.00	0.00	0.0	6516.45	751.81	34.14	0.00	752.58			
6650.00	0.00	0.0	6566.45	751.81	34.14	0.00	752.58			
6700.00	0.00	0.0	6616.45	751.81	34.14	0.00	752.58			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator		Units		11:07 Friday, February 07, 2014 Page 5 of 6						
Field		feet, %/100ft								
Well Name		County		Vertical Section Azimuth 2.6						
08-04-D4		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location				MapZone				Lat Long Ref		
Site				SurfaceX				Surface Long		
Slot Name				SurfaceY				Surface Lat		
Well Number				Z Datum						
Project				Surface Z				Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6750.00	0.00	0.0	6666.45	751.81	34.14	0.00	752.58			
6800.00	0.00	0.0	6716.45	751.81	34.14	0.00	752.58			
6850.00	0.00	0.0	6766.45	751.81	34.14	0.00	752.58			
6900.00	0.00	0.0	6816.45	751.81	34.14	0.00	752.58			
6950.00	0.00	0.0	6866.45	751.81	34.14	0.00	752.58			
7000.00	0.00	0.0	6916.45	751.81	34.14	0.00	752.58			
7050.00	0.00	0.0	6966.45	751.81	34.14	0.00	752.58			
7100.00	0.00	0.0	7016.45	751.81	34.14	0.00	752.58			
7150.00	0.00	0.0	7066.45	751.81	34.14	0.00	752.58			
7200.00	0.00	0.0	7116.45	751.81	34.14	0.00	752.58			
7250.00	0.00	0.0	7166.45	751.81	34.14	0.00	752.58			
7300.00	0.00	0.0	7216.45	751.81	34.14	0.00	752.58			
7350.00	0.00	0.0	7266.45	751.81	34.14	0.00	752.58			
7400.00	0.00	0.0	7316.45	751.81	34.14	0.00	752.58			
7450.00	0.00	0.0	7366.45	751.81	34.14	0.00	752.58			
7500.00	0.00	0.0	7416.45	751.81	34.14	0.00	752.58			
7550.00	0.00	0.0	7466.45	751.81	34.14	0.00	752.58			
7600.00	0.00	0.0	7516.45	751.81	34.14	0.00	752.58			
7650.00	0.00	0.0	7566.45	751.81	34.14	0.00	752.58			
7700.00	0.00	0.0	7616.45	751.81	34.14	0.00	752.58			
7750.00	0.00	0.0	7666.45	751.81	34.14	0.00	752.58			
7800.00	0.00	0.0	7716.45	751.81	34.14	0.00	752.58			
7850.00	0.00	0.0	7766.45	751.81	34.14	0.00	752.58			
7900.00	0.00	0.0	7816.45	751.81	34.14	0.00	752.58			
7950.00	0.00	0.0	7866.45	751.81	34.14	0.00	752.58			
8000.00	0.00	0.0	7916.45	751.81	34.14	0.00	752.58			
8050.00	0.00	0.0	7966.45	751.81	34.14	0.00	752.58			
8100.00	0.00	0.0	8016.45	751.81	34.14	0.00	752.58			
8150.00	0.00	0.0	8066.45	751.81	34.14	0.00	752.58			
8200.00	0.00	0.0	8116.45	751.81	34.14	0.00	752.58			
8250.00	0.00	0.0	8166.45	751.81	34.14	0.00	752.58			
8300.00	0.00	0.0	8216.45	751.81	34.14	0.00	752.58			
8350.00	0.00	0.0	8266.45	751.81	34.14	0.00	752.58			
8400.00	0.00	0.0	8316.45	751.81	34.14	0.00	752.58			
8450.00	0.00	0.0	8366.45	751.81	34.14	0.00	752.58			

08-04-D4, Plan 1

08-04-D4, Plan 1										
Operator		Units		11:07 Friday, February 07, 2014 Page 6 of 6						
Field		feet, %/100ft								
Well Name		County		Vertical Section Azimuth 2.6						
08-04-D4		State		Survey Calculation Method Minimum Curvature						
Plan 1		Country		Database Access						
Location				MapZone		Lat Long Ref				
Site				SurfaceX		Surface Long				
Slot Name		UWI		SurfaceY		Surface Lat				
Well Number		API		Z Datum						
Project				Surface Z		Ground Level				
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
8500.00	0.00	0.0	8416.45	751.81	34.14	0.00	752.58			
8550.00	0.00	0.0	8466.45	751.81	34.14	0.00	752.58			
8600.00	0.00	0.0	8516.45	751.81	34.14	0.00	752.58			
8650.00	0.00	0.0	8566.45	751.81	34.14	0.00	752.58			
8700.00	0.00	0.0	8616.45	751.81	34.14	0.00	752.58			
8750.00	0.00	0.0	8666.45	751.81	34.14	0.00	752.58			
8800.00	0.00	0.0	8716.45	751.81	34.14	0.00	752.58			
8850.00	0.00	0.0	8766.45	751.81	34.14	0.00	752.58			
8900.00	0.00	0.0	8816.45	751.81	34.14	0.00	752.58			
8950.00	0.00	0.0	8866.45	751.81	34.14	0.00	752.58			
9000.00	0.00	0.0	8916.45	751.81	34.14	0.00	752.58			
9050.00	0.00	0.0	8966.45	751.81	34.14	0.00	752.58			
9100.00	0.00	0.0	9016.45	751.81	34.14	0.00	752.58			
9150.00	0.00	0.0	9066.45	751.81	34.14	0.00	752.58			
*** RTD (at MD = 9175.00)										
9175.00	0.00	0.0	9091.45	751.81	34.14	0.00	752.58			

T4S, R4W, U.S.B.&M.

PETROGLYPH OPERATING CO., INC.

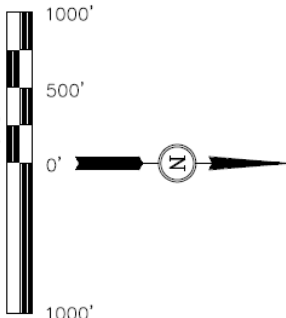
Well location, UTE TRIBAL #08-04-D4, located as shown in the SW 1/4 NW 1/4 of Section 8, T4S, R4W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESE SE. QUADRANGLE, UTAH, DUCHESE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



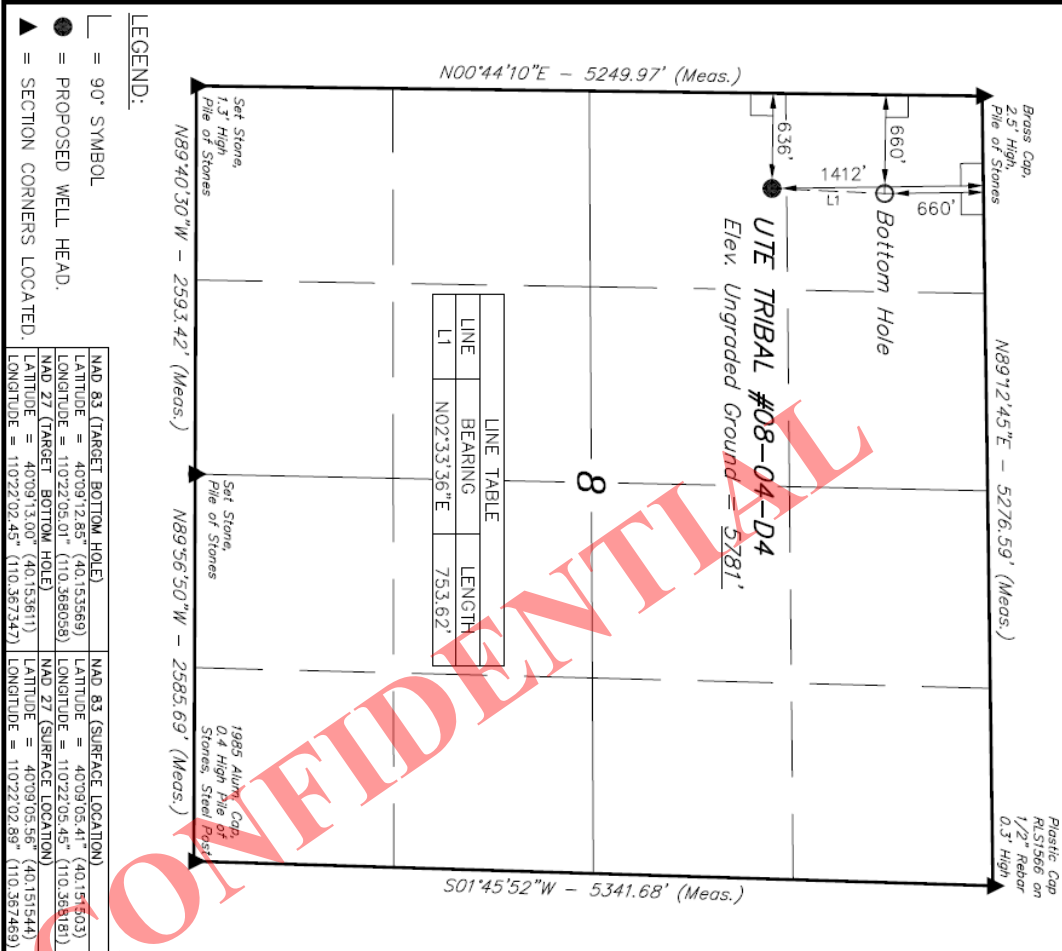
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE SURVEY WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

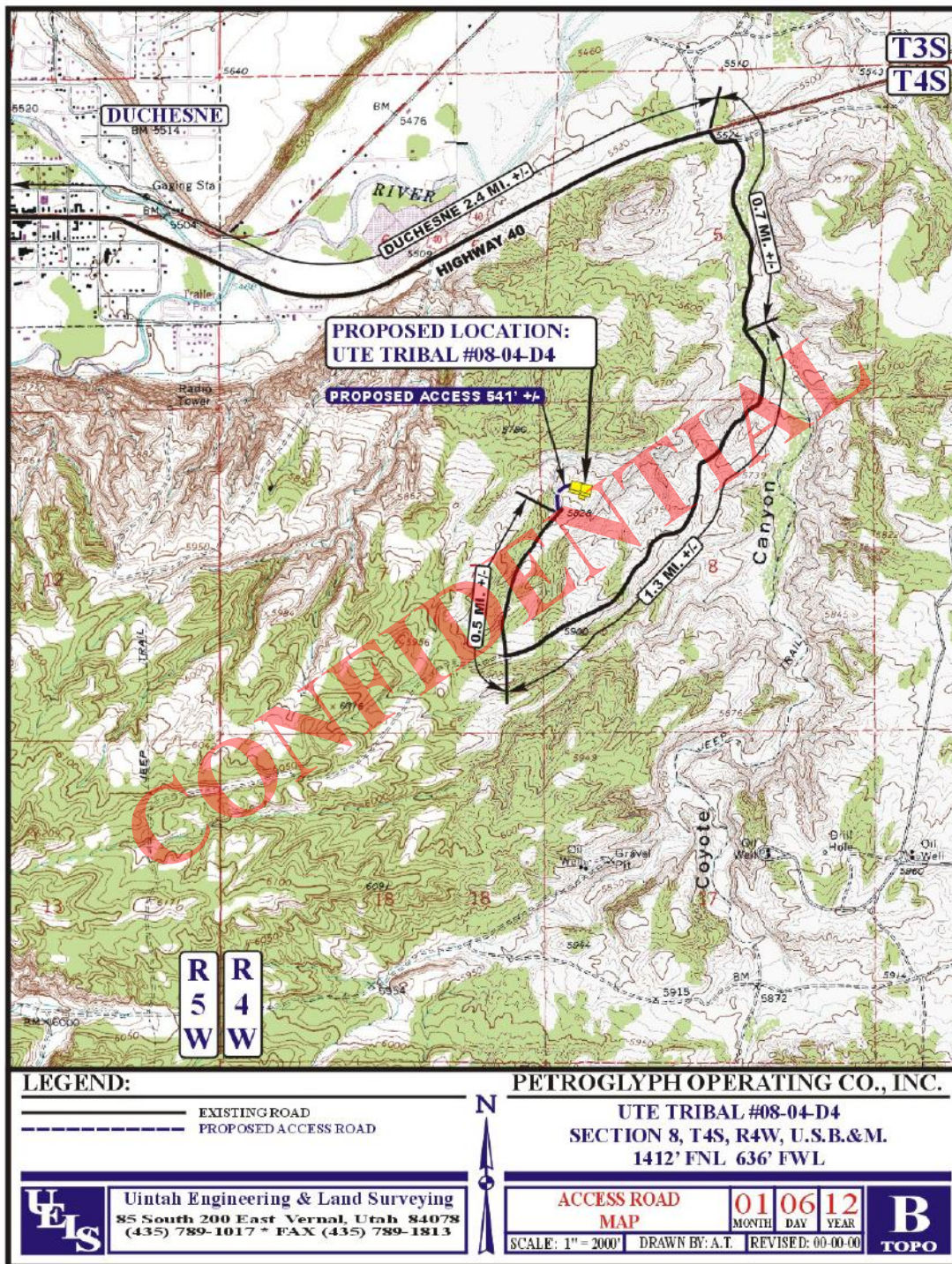
SCALE 1" = 1000'	DATE SURVEYED: 01-05-12	DATE DRAWN: 02-06-12
PARTY A.F. J.M. H.K.W.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE PETROGLYPH OPERATING CO., INC.	



LEGEND:

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'12.85" (40.153569)	LATITUDE = 40°09'05.41" (40.151503)
LONGITUDE = 110°22'05.01" (110.368058)	LONGITUDE = 110°22'05.45" (110.368181)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'13.00" (40.153611)	LATITUDE = 40°09'05.56" (40.151544)
LONGITUDE = 110°22'02.45" (110.367347)	LONGITUDE = 110°22'02.89" (110.367469)



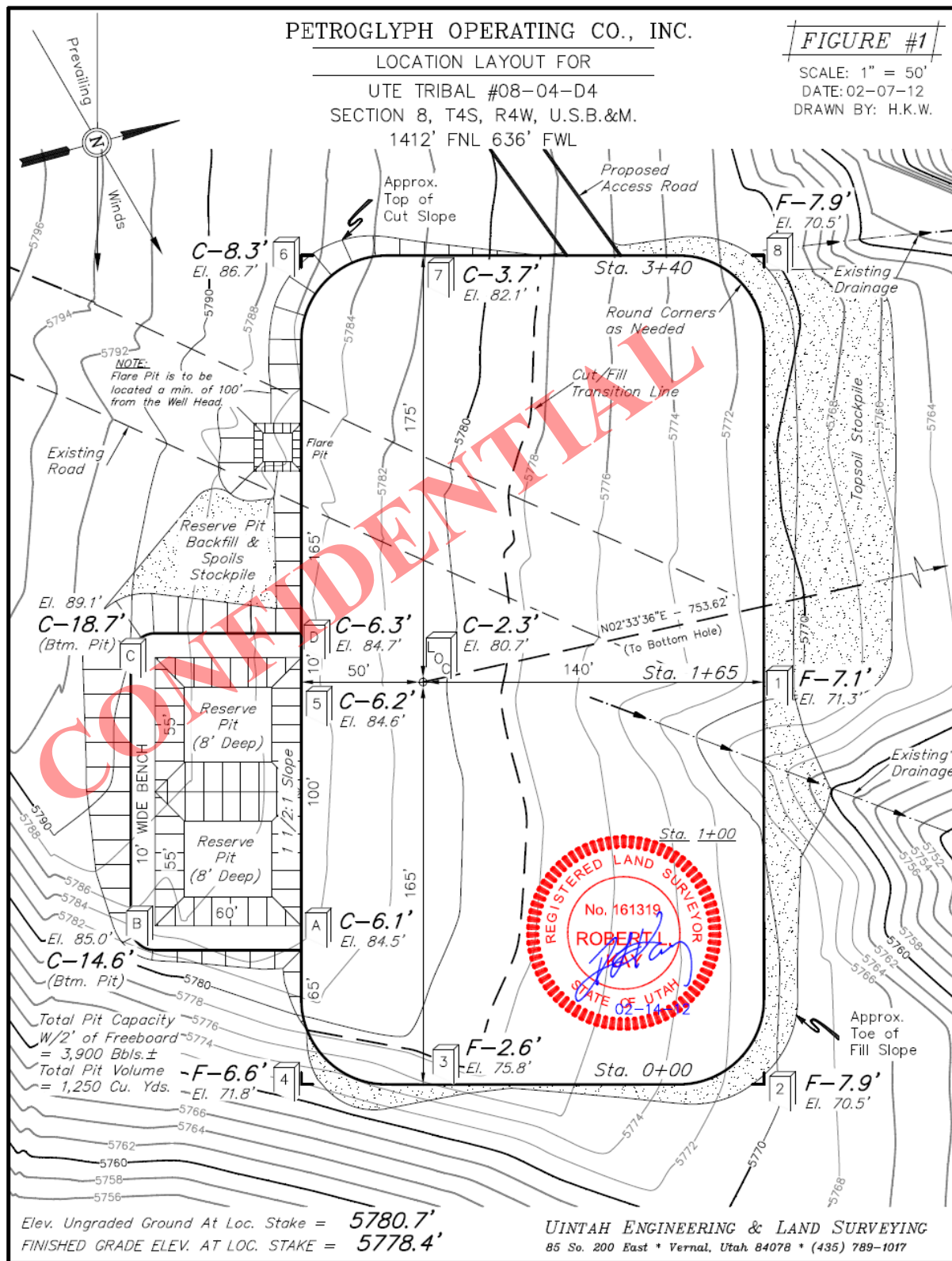
Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions that presently exist; that the statements made in the Plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Co., Inc. and its contractors and subcontractors in conformity with this Plan and the terms and conditions under which it is approved.

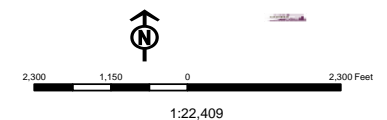
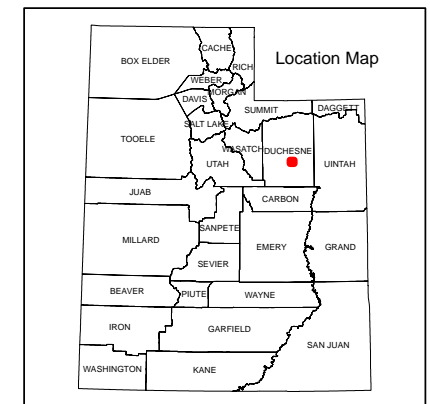
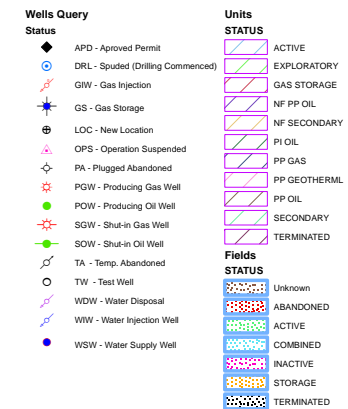
Please be advised that Petroglyph Operating Co., Inc. is considered to be the operator of the **UTE TRIBAL 08-04-D4 Well, located in SW/NW of Section 8, T4S, R4W, Duchesne County, Utah, lease #1-109-IND-5351**; and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond Coverage is provided under Bond #LPM4138153.

Date

Agent



Map Prepared: 2/28/2014
Map Produced by Diana Mason



ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator PETROGLYPH OPERATING CO
Well Name Ute Tribal 08-04-D4
API Number 43013528740000 **APD No** 9466 **Field/Unit** DUCHESNE
Location: 1/4,1/4 SWNW Sec 8 Tw 4.0S Rng 4.0W 1412 FNL 636 FWL
GPS Coord (UTM) 553812 4444768 **Surface Owner** Petroglyph Operating, Co.,Inc.

Participants

Rodrigo Jurado & Les Farnsworth (Petroglyph Operating); Ed Trotter (Landman); David Gordon & Nick (BLM); Dennis Ingram (Oil, Gas & Mining)

Regional/Local Setting & Topography

The Ute Tribal 08-04-D4 has been proposed in northeastern Utah, approximately 2.4 miles east of Duchesne along US Highway 40, they south up Coyote Canyon for another 0.7 miles, then west onto an adjacent ridge for another 1.3 miles, then north 0.5 miles into staking. The regional topography is the western portion of the Uintah Basin that rises in elevation to the south from the east/west Duchesne River Corridor. This topography has long, north running ridges and adjacent canyons that head along the Bad Lands of Anthro Mountain and Indian Canyon. The immediate topography at the well site slopes north on a broad ridge or bench that slopes toward the Duchesne River.

Surface Use Plan

Current Surface Use
Wildlfe Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.102	Width 260 Length 340	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Cedar, sagebrush, bunch grass, prickly pear cactus

Potential elk and mule deer winter use, coyote, mountain lion, fox, raccoon, rabbit, prairie dog and other smaller mammals, birds native to region.

Soil Type and Characteristics

Shale, tan, sandy loam with some clays

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? Y Cultural Resources? N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		25 1 Sensitivity Level

Characteristics / Requirements

A reserve pit is proposed off the south side of the location in cut, measuring 60' wide by 110' long by 8' deep.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 16 Pit Underlayment Required?

Other Observations / Comments

Slopes to the north, reserve pit in cut, surface owned by operator, no drainage issues,

Dennis Ingram
Evaluator

4/8/2014
Date / Time

Application for Permit to Drill Statement of Basis Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9466	43013528740000	LOCKED	OW	P	No
Operator	PETROGLYPH OPERATING CO		Surface Owner-APD	Petroglyph Operating, Co.,Inc.	
Well Name	Ute Tribal 08-04-D4		Unit		
Field	DUCHESNE		Type of Work	DRILL	
Location	SWNW 8 4S 4W U 1412 FNL 636 FWL GPS Coord (UTM) 553813E 4444763N				

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill
APD Evaluator

4/17/2014
Date / Time

Surface Statement of Basis

A reserve pit is proposed off the south side of the location in cut. The operator shall walk in any rocks and make a smooth pit bottom before installing a 16 mil or thicker synthetic liner. If the bottom of this pit is rocky the operator shall install a felt liner. There aren't any drainage issues that deal with this well site.

A presite was scheduled and performed on April 8, 2014 to take input and address issue regarding the construction and drilling of the Ute Tribal 08-04-D4. This well is a split estate well with Tribal minerals, and therefore the BLM was invited to represent them. The surface is owned or has been purchased by Petroglyph operating and was in attendance.

Dennis Ingram
Onsite Evaluator

4/8/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the south side of the location.
Surface	The well site shall be bermed to prevent fluids from entering or leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/26/2014

API NO. ASSIGNED: 43013528740000

WELL NAME: Ute Tribal 08-04-D4

OPERATOR: PETROGLYPH OPERATING CO (N3800)

PHONE NUMBER: 435 789-4120

CONTACT: Ed Trotter

PROPOSED LOCATION: SWNW 08 040S 040W

Permit Tech Review: ☒

SURFACE: 1412 FNL 0636 FWL

Engineering Review: ☐

BOTTOM: 0660 FNL 0660 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.15150

LONGITUDE: -110.36818

UTM SURF EASTINGS: 553813.00

NORTHINGS: 4444763.00

FIELD NAME: DUCHESNE

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1-109-IND-5351

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

LOCATION AND SITING:

☒ PLAT☐ R649-2-3.☒ Bond: INDIAN - LPM4138336

Unit:

☐ Potash☐ R649-3-2. General☐ Oil Shale 190-5☐ Oil Shale 190-3☐ R649-3-3. Exception☐ Oil Shale 190-13☒ Drilling Unit☒ Water Permit: 43-8342

Board Cause No: Cause 139-107

☐ RDCC Review:

Effective Date: 10/23/2013

☒ Fee Surface Agreement

Siting: 460' Fr Ext Bdry & 920' Fr Other Wells

☐ Intent to Commingle☒ R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
5 - Statement of Basis - BHILL
15 - Directional - dmason

RECEIVED: April 17, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Ute Tribal 08-04-D4

API Well Number: 43013528740000

Lease Number: 1-109-IND-5351

Surface Owner: FEE (PRIVATE)

Approval Date: 4/17/2014

Issued to:

PETROGLYPH OPERATING CO, 960 Broadway Avenue, Ste 500, Boise, ID 83703

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-107. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412 FNL 0636 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 08 Township: 04.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528740000
5. FIELD and POOL or WILDCAT: DUCHESNE		6. COUNTY: DUCHESNE
7. STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/4/2014	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see the attached revised drilling plan outlining a revised TD and upgraded surface casing program. Petroglyph Operating proposes to deepen the well to a new TD of 9661' MD, from an original TD of 9175'; taking us an additional 486' into Wasatch Formation. The surface casing will now be 10-3/4" 44.5 lb/ft J-55 STC pipe set in a 13-3/4" hole, from a 9-5/8" set in a 12-1/4" hole. Cement volumes have been adjusted to provide appropriate excess to surface. These changes are being made in order for this well to reflect a stratigraphic equivalent of other wells in the area.

Approved by the
July 22, 2014
Oil, Gas and Mining

Date: _____

By:

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 7/15/2014	

CONFIDENTIAL
NINE POINT DRILLING PLAN
PETROGLYPH OPERATING COMPANY, INC
UTE TRIBAL 08-04-D4
SW NW, SEC 8, T4S, R4W
DUCHESNE COUNTY, UTAH

1. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Formation	Elevation	TVD	MD
Rig KB=~13' above GGL	5791	0	0
Surface Formation = Uinta			
Uinta	5778	13	13
Green River	3590	2201	2230
Trona	2185	3606	3682
Mahogany Shale	1991	3800	3880
"B" Marker	468	5323	5407
"X" Marker	45	5746	5830
Douglas Creek Marker	-94	5885	5969
"B" Limestone	-556	6347	6431
Base Castle Peak Limestone	-1148	6939	7023
BSCARB	-1495	7286	7370
Wasatch	-1783	7574	7658
Formation at TD: Wasatch Rig TD	-3800	9591	9661

2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS:

Substance	Formation	Elevation	TVD	MD
Base of moderately saline ground water*	not present	6050	0	0
Oil/Gas	Douglas Creek	-94	5885	5969
Oil/Gas	Castle Peak	-1148	6939	7023
Oil/Gas	Wasatch	-1783	7574	7658

Any water encountered during drilling shall be sampled, analyzed and reported to the BLM Vernal office using State of Utah DOGM Form 7 *Report of Water Encountered during Drilling*. The following analyses shall be performed on any water encountered:

Flow rate (or blowtest)	Temperature	pH	TDS
Dissolved Iron	Dissolved Magnesium	Dissolved Bicarb.	Dissolved Sulfate
Dissolved Calcium	Dissolved Sodium	Dissolved Carbonate	Dissolved Chloride

All depths through the "Base of moderately saline ground water"*, along with any water encountered below that depth which is less than 10,000 TDS, shall be protected by the surface casing or by lifting the cement of the production casing into the surface casing.

*Base of Moderately Saline Groundwater from Howells, Longson and Hunt, 1981, Utah State Technical Publication 92: The Base of the Moderately Saline Water in the Uinta Basin, Utah



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3. PROPOSED CASING PROGRAM:

String	Hole	Casing	Top - MD	Bottom - MD	Weight	Grade	Thread
Conductor	20"	16"	surface	53'	steel	Cond'r	none
Surface	13-3/4"	10-3/4"	surface	2668'	45.5 lb/ft	J-55	STC
Production	8-3/4"	5-1/2"	surface	9661'	17 lb/ft	P-110	LTC

String	Hole	Casing	Collapse	Burst	Tensile
Surface	13-3/4"	10-3/4"	2,090 psi	3,580 psi	493,000 lb
Production	8-3/4"	5-1/2"	7,460 psi	10,640 psi	445,000 lb

- All casing will be new or inspected.
- The surface and production strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.
- The production string shall have a minimum of one (1) centralizer for every three (3) joints from TD to the top of the "B" marker at 5407'MD.

4. PROPOSED CEMENTING PROGRAM:

String	Top	Cement Description	Sacks	Excess	Weight (ppg)	Yield (ft³/sk)
	Bottom		Vol (ft³)			
Conductor	0 53	Construction Grade Cement	Sufficient volumes to grout Conductor			
Surface	0 2668	Class G +2% CaCl2 +0.25 lb/sk Cello Flake	1,188 1,390	30%	15.8	1.17
Production Lead	0 5407	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	925 1,776	30%	12.5	1.92
Production Tail	5407 9661	EXPANDACEM (Class G +additives) + 1 lb/sk Granulite TR¼ (LCM)	957 1,397	30%	13.4	1.46

- The 10-3/4" surface casing shall be cemented back to surface. In the event that during the primary surface cementing operation the cement does not circulate to surface, or if the cement level should fall back more than 8 feet from surface, then a remedial surface cementing operation shall be performed to insure adequate isolation and stabilization of the surface casing.
- The 5-1/2" production casing shall be cemented back to surface. In the event that during the primary cementing operation the cement does not circulate to surface, a remedial cementing operation shall be performed only if necessary to lift cement above the Surface Casing Shoe at 2668'MD.



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5. MINIMUM PRESSURE CONTROL AND SAFETY EQUIPMENT:

- An 11", 3000 PSI, Double Ram BOPE with Hydraulic Closing Unit shall be used.
- The flowline shall have a minimum diameter of 10".
- Auxiliary equipment shall be a Kelly Cock, Bit Float, and a TIW valve with drill pipe threads.
- All BOPE connections subjected to well pressure will be flanged, welded or clamped.
- Spark arrestors shall be equipped on all engine exhausts within 100 feet of the wellbore.
- See attached 3,000 psi BOP schematic diagram.

BOPE TESTING PROCEDURE:

- The BOPE shall be tested by a professional tester to conform to the standards of Onshore Order #2.

6. MUD PROGRAM:

A. SURFACE HOLE

- Surface hole will be drilled with a rotary drill rig.
- Operator will not use BOPE while drilling surface hole to accommodate a 13-3/4" bit.
- The surface hole will be drilled with a fresh water polymer system from 0' to 2668'. All cuttings shall be directed to pit.
- BLM will be given 24 hour notice of running and cementing surface casing.

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B. PRODUCTION HOLE

- Drilling of production hole shall not commence until surface cement has set long enough to achieve 500 psi compressive strength at Surface Casing Shoe.
- Prior to drilling out of surface, Surface Casing shall be pressure tested to 587 psi (0.22 psi per foot) and hold for 30 minutes with a less than 10% decline.
- The production hole shall be drilled with a freshwater polymer system from 2668' to 9661'. LSND mud if conditions warrant.
- Clay inhibition and hole stability shall be achieved with a Potassium Chloride (KCl) additive or similar source of clay-stabilizing ions. Anticipated mud weight is 9.8-9.9 lbs/gal. although mud weight up to 12lbs/gal may be used if necessary to prevent wellbore wall instability due to the Wasatch red beds.
- All cuttings and circulating medium shall be directed into the reserve pit. Total Dissolved Solids (TDS) are anticipated to be less than 3000 PPM.
- Sufficient mud inventory will be maintained on location in either tanks or the reserve pit during the drilling of the production hole to handle any adverse conditions that may arise.
- If necessary to control formation fluids or pressure, the system will be weighted with the addition of bentonite gel, and if pressure conditions warrant, with barite. Enough material shall be maintained on location to allow for the mudweight to be raised to 12lbs/gal should need arise.
- During drilling operations, pit levels and flow from the well shall be monitored by instrumentation to include at least: a pit volume totalizer (PVT), a stroke counter, and a mud-flow indicator.
- Returns shall be sent through a mud-gas separator.

C. HAZARDOUS MATERIALS AND POLLUTANTS

- Chromate additives **shall NOT** be used in the mud system on Indian lands without prior BLM approval to ensure adequate protection of freshwater aquifers.
- Chemicals subject to reporting under SARA Title III in an amounts equal to or greater than 10,000 pounds annually **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities **shall NOT** be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of this well.
- Hazardous substances specifically listed by the EPA as a hazardous waste, as defined in 40 CFR 261 (D), or any substances that through their use would lead to the generation of a hazardous waste, **shall NOT** be used in association with the drilling, testing, or completion of this well.

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7. EVALUATION PROGRAM:

Logs:	Triple Combo	TD to base of surface casing (AIT, DSN, CDL) Base of surface casing to surface (GR only)
Cores:	None planned	
DST:	None planned	
Testing:	Operator plans no testing until the completion phase of the well.	

8. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

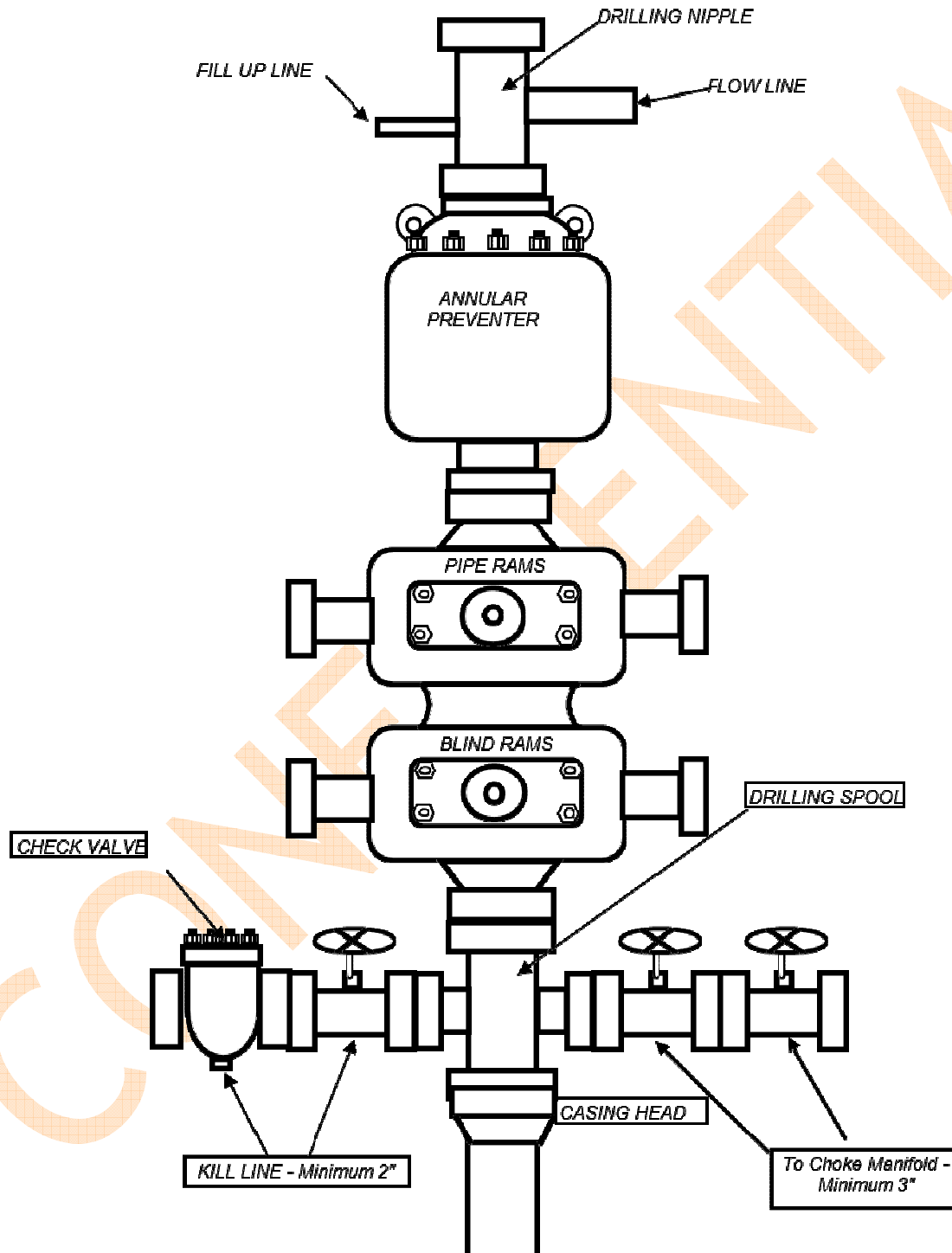
- Operator anticipates Bottom Hole Temperatures around 230°F, which was recorded in nearby wells by other operators.
- No H₂S has been encountered or is known to exist from previous drilling in the area at this depth.
- Maximum pressure for hydrocarbon bearing zones at native conditions in this area is approximately 4154 PSI (0.43PSI/ft gradient).
- Normally pressured zones are possible around the Trona Marker (3682') and below.

9. DIRECTIONAL WELL PLAN:

- Well shall be drilled directionally in order to limit surface disturbance.
- A Positive Displacement Motor with a bent sub of 1.25° to 1.75° will be used to control well path.
- A directional survey shall be taken at least one (1) time per 100' of drilling.
- Anti-collision equipment will not be used as there are no existing wells in the vicinity of the proposed well path.
- Directional drilling will kick off inside Surface Casing hole to allow wellbore to lie within the drilling window at all hydrocarbon bearing intervals.
- Directional drilling plan is attached.

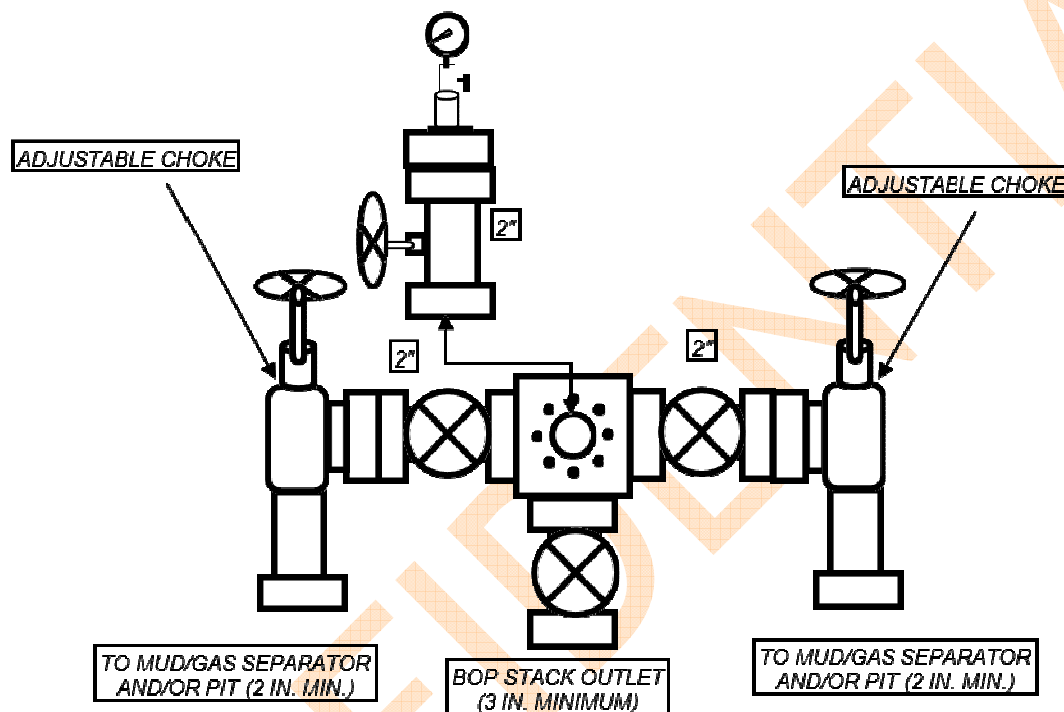
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NINE POINT DRILLING PLAN
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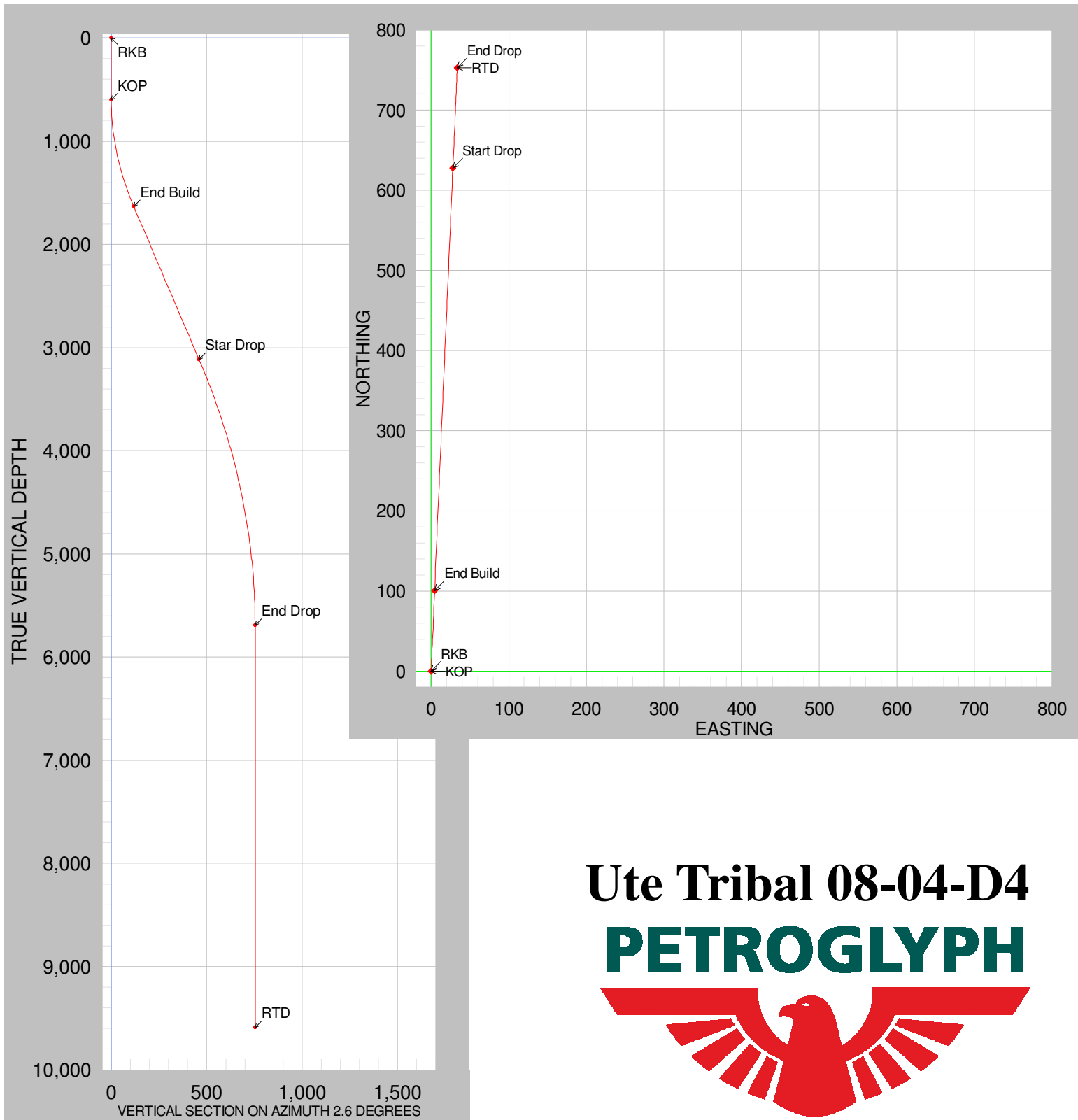
TYPICAL 3,000 p.s.i. BLOWOUT PREVENTER



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SW NW, SEC 8, T4S, R4W
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TYPICAL 3,000 p.s.i. CHOKE MANIFOLD





Ute Tribal 08-04-D4

PETROGLYPH



#	Reference	Type	MD	Inc	Azi	TVD	N	E	DLS	Vert S
0	RKB	Tie Point	0.00	0.00	0.00	0.00	0.00	0.00		0.00
1	KOP	Vertical	600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
2	End Build	Build	1640.00	13.00	2.60	1631.10	117.36	5.33	1.25	117.48
3	Star Drop	Tangent	3160.00	13.00	2.60	3112.14	458.93	20.84	0.00	459.40
4	End Drop	Drop	5760.00	0.00	0.00	5689.89	752.33	34.16	0.50	753.10
5	RTD	Vertical	9661.00	0.00	0.00	9590.89	752.33	34.16	0.00	753.10

SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator	Units feet, %/100ft	10:21 Wednesday, July 09, 2014 Page 1 of 6
Field	County	Vertical Section Azimuth 2.6
Well Name 08-04-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
*** RKB (at MD = 0.00)										
0.00	0.00	0.0	0.00	0.00	0.00		0.00			
50.00	0.00	0.0	50.00	0.00	0.00	0.00	0.00			
100.00	0.00	0.0	100.00	0.00	0.00	0.00	0.00			
150.00	0.00	0.0	150.00	0.00	0.00	0.00	0.00			
200.00	0.00	0.0	200.00	0.00	0.00	0.00	0.00			
250.00	0.00	0.0	250.00	0.00	0.00	0.00	0.00			
300.00	0.00	0.0	300.00	0.00	0.00	0.00	0.00			
350.00	0.00	0.0	350.00	0.00	0.00	0.00	0.00			
400.00	0.00	0.0	400.00	0.00	0.00	0.00	0.00			
450.00	0.00	0.0	450.00	0.00	0.00	0.00	0.00			
500.00	0.00	0.0	500.00	0.00	0.00	0.00	0.00			
550.00	0.00	0.0	550.00	0.00	0.00	0.00	0.00			
*** KOP (at MD = 600.00)										
600.00	0.00	0.0	600.00	0.00	0.00	0.00	0.00			
650.00	0.63	2.6	650.00	0.27	0.01	1.25	0.27			
700.00	1.25	2.6	699.99	1.09	0.05	1.25	1.09			
750.00	1.88	2.6	749.97	2.45	0.11	1.25	2.45			
800.00	2.50	2.6	799.94	4.36	0.20	1.25	4.36			
850.00	3.13	2.6	849.88	6.81	0.31	1.25	6.82			
900.00	3.75	2.6	899.79	9.80	0.45	1.25	9.81			
950.00	4.38	2.6	949.66	13.34	0.61	1.25	13.36			
1000.00	5.00	2.6	999.49	17.42	0.79	1.25	17.44			
1050.00	5.63	2.6	1049.28	22.05	1.00	1.25	22.07			
1100.00	6.25	2.6	1099.01	27.22	1.24	1.25	27.24			
1150.00	6.88	2.6	1148.68	32.92	1.50	1.25	32.96			
1200.00	7.50	2.6	1198.29	39.17	1.78	1.25	39.21			
1250.00	8.13	2.6	1247.82	45.96	2.09	1.25	46.01			
1300.00	8.75	2.6	1297.28	53.29	2.42	1.25	53.35			
1350.00	9.38	2.6	1346.66	61.16	2.78	1.25	61.22			
1400.00	10.00	2.6	1395.94	69.56	3.16	1.25	69.64			
1450.00	10.63	2.6	1445.14	78.51	3.56	1.25	78.59			
1500.00	11.25	2.6	1494.23	87.98	4.00	1.25	88.07			
1550.00	11.88	2.6	1543.21	97.99	4.45	1.25	98.10			
1600.00	12.50	2.6	1592.09	108.54	4.93	1.25	108.65			

SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator		Units feet, %/100ft	10:21 Wednesday, July 09, 2014 Page 2 of 6
Field		County	Vertical Section Azimuth 2.6
Well Name 08-04-D4		State	Survey Calculation Method Minimum Curvature
Plan 1		Country	Database Access

Location		MapZone	Lat Long Ref
Site		SurfaceX	Surface Long
Slot Name	UWI	SurfaceY	Surface Lat
Well Number	API	Z Datum	
Project		Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft

*** END BUILD (at MD = 1640.00)

1640.00	13.00	2.6	1631.10	117.36	5.33	1.25	117.48
1650.00	13.00	2.6	1640.84	119.61	5.43	0.00	119.73

1700.00	13.00	2.6	1689.56	130.84	5.94	0.00	130.98
1750.00	13.00	2.6	1738.28	142.08	6.45	0.00	142.22
1800.00	13.00	2.6	1787.00	153.31	6.96	0.00	153.47
1850.00	13.00	2.6	1835.72	164.55	7.47	0.00	164.72
1900.00	13.00	2.6	1884.44	175.79	7.98	0.00	175.97

1950.00	13.00	2.6	1933.15	187.02	8.49	0.00	187.21
2000.00	13.00	2.6	1981.87	198.26	9.00	0.00	198.46
2050.00	13.00	2.6	2030.59	209.49	9.51	0.00	209.71
2100.00	13.00	2.6	2079.31	220.73	10.02	0.00	220.96
2150.00	13.00	2.6	2128.03	231.97	10.53	0.00	232.20

2200.00	13.00	2.6	2176.75	243.20	11.04	0.00	243.45
2250.00	13.00	2.6	2225.47	254.44	11.55	0.00	254.70
2300.00	13.00	2.6	2274.18	265.67	12.06	0.00	265.95
2350.00	13.00	2.6	2322.90	276.91	12.57	0.00	277.19
2400.00	13.00	2.6	2371.62	288.14	13.08	0.00	288.44

2450.00	13.00	2.6	2420.34	299.38	13.59	0.00	299.69
2500.00	13.00	2.6	2469.06	310.62	14.11	0.00	310.94
2550.00	13.00	2.6	2517.78	321.85	14.62	0.00	322.18
2600.00	13.00	2.6	2566.49	333.09	15.13	0.00	333.43
2650.00	13.00	2.6	2615.21	344.32	15.64	0.00	344.68

2700.00	13.00	2.6	2663.93	355.56	16.15	0.00	355.93
2750.00	13.00	2.6	2712.65	366.80	16.66	0.00	367.17
2800.00	13.00	2.6	2761.37	378.03	17.17	0.00	378.42
2850.00	13.00	2.6	2810.09	389.27	17.68	0.00	389.67
2900.00	13.00	2.6	2858.81	400.50	18.19	0.00	400.92

2950.00	13.00	2.6	2907.52	411.74	18.70	0.00	412.16
3000.00	13.00	2.6	2956.24	422.98	19.21	0.00	423.41
3050.00	13.00	2.6	3004.96	434.21	19.72	0.00	434.66
3100.00	13.00	2.6	3053.68	445.45	20.23	0.00	445.91
3150.00	13.00	2.6	3102.40	456.68	20.74	0.00	457.16

*** STAR DROP (at MD = 3160.00)

3160.00	13.00	2.6	3112.14	458.93	20.84	0.00	459.40
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SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator		Units feet, %/100ft	10:21 Wednesday, July 09, 2014 Page 3 of 6
Field		County	Vertical Section Azimuth 2.6
Well Name 08-04-D4		State	Survey Calculation Method Minimum Curvature
Plan 1		Country	Database Access

Location		MapZone	Lat Long Ref
Site		SurfaceX	Surface Long
Slot Name	UWI	SurfaceY	Surface Lat
Well Number	API	Z Datum	
Project		Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
3200.00	12.80	2.6	3151.13	467.85	21.25	0.50	468.33			
3250.00	12.55	2.6	3199.91	478.81	21.74	0.50	479.31			
3300.00	12.30	2.6	3248.74	489.56	22.23	0.50	490.06			
3350.00	12.05	2.6	3297.62	500.09	22.71	0.50	500.61			
3400.00	11.80	2.6	3346.54	510.41	23.18	0.50	510.94			
3450.00	11.55	2.6	3395.50	520.52	23.64	0.50	521.06			
3500.00	11.30	2.6	3444.51	530.42	24.09	0.50	530.96			
3550.00	11.05	2.6	3493.57	540.10	24.53	0.50	540.65			
3600.00	10.80	2.6	3542.66	549.56	24.96	0.50	550.13			
3650.00	10.55	2.6	3591.79	558.81	25.38	0.50	559.39			
3700.00	10.30	2.6	3640.97	567.85	25.79	0.50	568.44			
3750.00	10.05	2.6	3690.18	576.68	26.19	0.50	577.27			
3800.00	9.80	2.6	3739.43	585.29	26.58	0.50	585.89			
3850.00	9.55	2.6	3788.72	593.68	26.96	0.50	594.29			
3900.00	9.30	2.6	3838.05	601.86	27.33	0.50	602.48			
3950.00	9.05	2.6	3887.41	609.82	27.69	0.50	610.45			
4000.00	8.80	2.6	3936.80	617.57	28.04	0.50	618.21			
4050.00	8.55	2.6	3986.23	625.11	28.39	0.50	625.75			
4100.00	8.30	2.6	4035.69	632.42	28.72	0.50	633.08			
4150.00	8.05	2.6	4085.18	639.53	29.04	0.50	640.19			
4200.00	7.80	2.6	4134.71	646.41	29.35	0.50	647.08			
4250.00	7.55	2.6	4184.26	653.08	29.66	0.50	653.76			
4300.00	7.30	2.6	4233.84	659.54	29.95	0.50	660.22			
4350.00	7.05	2.6	4283.45	665.78	30.23	0.50	666.46			
4400.00	6.80	2.6	4333.08	671.80	30.51	0.50	672.49			
4450.00	6.55	2.6	4382.74	677.61	30.77	0.50	678.30			
4500.00	6.30	2.6	4432.43	683.20	31.02	0.50	683.90			
4550.00	6.05	2.6	4482.14	688.57	31.27	0.50	689.28			
4600.00	5.80	2.6	4531.87	693.72	31.50	0.50	694.44			
4650.00	5.55	2.6	4581.63	698.66	31.73	0.50	699.38			
4700.00	5.30	2.6	4631.40	703.39	31.94	0.50	704.11			
4750.00	5.05	2.6	4681.20	707.89	32.15	0.50	708.62			
4800.00	4.80	2.6	4731.01	712.18	32.34	0.50	712.91			
4850.00	4.55	2.6	4780.85	716.25	32.52	0.50	716.99			
4900.00	4.30	2.6	4830.70	720.10	32.70	0.50	720.85			

SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator		Units		feet, %/100ft		10:21 Wednesday, July 09, 2014 Page 4 of 6				
Field		County				Vertical Section Azimuth 2.6				
Well Name 08-04-D4		State				Survey Calculation Method Minimum Curvature				
Plan 1		Country				Database Access				
Location						MapZone		Lat Long Ref		
Site						SurfaceX		Surface Long		
Slot Name		UWI				SurfaceY		Surface Lat		
Well Number		API				Z Datum				
Project						Surface Z		Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
4950.00	4.05	2.6	4880.57	723.74	32.86	0.50	724.49			
5000.00	3.80	2.6	4930.45	727.16	33.02	0.50	727.91			
5050.00	3.55	2.6	4980.35	730.36	33.17	0.50	731.11			
5100.00	3.30	2.6	5030.26	733.34	33.30	0.50	734.10			
5150.00	3.05	2.6	5080.18	736.11	33.43	0.50	736.87			
5200.00	2.80	2.6	5130.11	738.66	33.54	0.50	739.42			
5250.00	2.55	2.6	5180.06	740.99	33.65	0.50	741.75			
5300.00	2.30	2.6	5230.01	743.10	33.74	0.50	743.87			
5350.00	2.05	2.6	5279.98	745.00	33.83	0.50	745.77			
5400.00	1.80	2.6	5329.95	746.68	33.91	0.50	747.45			
5450.00	1.55	2.6	5379.93	748.14	33.97	0.50	748.91			
5500.00	1.30	2.6	5429.91	749.38	34.03	0.50	750.15			
5550.00	1.05	2.6	5479.90	750.40	34.08	0.50	751.18			
5600.00	0.80	2.6	5529.90	751.21	34.11	0.50	751.99			
5650.00	0.55	2.6	5579.89	751.80	34.14	0.50	752.57			
5700.00	0.30	2.6	5629.89	752.17	34.16	0.50	752.94			
5750.00	0.05	2.6	5679.89	752.32	34.16	0.50	753.10			
*** END DROP (at MD = 5760.00)										
5760.00	0.00	0.0	5689.89	752.33	34.16	0.50	753.10			
5800.00	0.00	0.0	5729.89	752.33	34.16	0.00	753.10			
5850.00	0.00	0.0	5779.89	752.33	34.16	0.00	753.10			
5900.00	0.00	0.0	5829.89	752.33	34.16	0.00	753.10			
5950.00	0.00	0.0	5879.89	752.33	34.16	0.00	753.10			
6000.00	0.00	0.0	5929.89	752.33	34.16	0.00	753.10			
6050.00	0.00	0.0	5979.89	752.33	34.16	0.00	753.10			
6100.00	0.00	0.0	6029.89	752.33	34.16	0.00	753.10			
6150.00	0.00	0.0	6079.89	752.33	34.16	0.00	753.10			
6200.00	0.00	0.0	6129.89	752.33	34.16	0.00	753.10			
6250.00	0.00	0.0	6179.89	752.33	34.16	0.00	753.10			
6300.00	0.00	0.0	6229.89	752.33	34.16	0.00	753.10			
6350.00	0.00	0.0	6279.89	752.33	34.16	0.00	753.10			
6400.00	0.00	0.0	6329.89	752.33	34.16	0.00	753.10			
6450.00	0.00	0.0	6379.89	752.33	34.16	0.00	753.10			
6500.00	0.00	0.0	6429.89	752.33	34.16	0.00	753.10			
6550.00	0.00	0.0	6479.89	752.33	34.16	0.00	753.10			

SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator	Units feet, %/100ft	10:21 Wednesday, July 09, 2014 Page 5 of 6
Field	County	Vertical Section Azimuth 2.6
Well Name 08-04-D4	State	Survey Calculation Method Minimum Curvature
Plan 1	Country	Database Access

Location	MapZone	Lat Long Ref
Site	SurfaceX	Surface Long
Slot Name	SurfaceY	Surface Lat
Well Number	Z Datum	
Project	Surface Z	Ground Level

DIRECTIONAL WELL PLAN

MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
6600.00	0.00	0.0	6529.89	752.33	34.16	0.00	753.10			
6650.00	0.00	0.0	6579.89	752.33	34.16	0.00	753.10			
6700.00	0.00	0.0	6629.89	752.33	34.16	0.00	753.10			
6750.00	0.00	0.0	6679.89	752.33	34.16	0.00	753.10			
6800.00	0.00	0.0	6729.89	752.33	34.16	0.00	753.10			
6850.00	0.00	0.0	6779.89	752.33	34.16	0.00	753.10			
6900.00	0.00	0.0	6829.89	752.33	34.16	0.00	753.10			
6950.00	0.00	0.0	6879.89	752.33	34.16	0.00	753.10			
7000.00	0.00	0.0	6929.89	752.33	34.16	0.00	753.10			
7050.00	0.00	0.0	6979.89	752.33	34.16	0.00	753.10			
7100.00	0.00	0.0	7029.89	752.33	34.16	0.00	753.10			
7150.00	0.00	0.0	7079.89	752.33	34.16	0.00	753.10			
7200.00	0.00	0.0	7129.89	752.33	34.16	0.00	753.10			
7250.00	0.00	0.0	7179.89	752.33	34.16	0.00	753.10			
7300.00	0.00	0.0	7229.89	752.33	34.16	0.00	753.10			
7350.00	0.00	0.0	7279.89	752.33	34.16	0.00	753.10			
7400.00	0.00	0.0	7329.89	752.33	34.16	0.00	753.10			
7450.00	0.00	0.0	7379.89	752.33	34.16	0.00	753.10			
7500.00	0.00	0.0	7429.89	752.33	34.16	0.00	753.10			
7550.00	0.00	0.0	7479.89	752.33	34.16	0.00	753.10			
7600.00	0.00	0.0	7529.89	752.33	34.16	0.00	753.10			
7650.00	0.00	0.0	7579.89	752.33	34.16	0.00	753.10			
7700.00	0.00	0.0	7629.89	752.33	34.16	0.00	753.10			
7750.00	0.00	0.0	7679.89	752.33	34.16	0.00	753.10			
7800.00	0.00	0.0	7729.89	752.33	34.16	0.00	753.10			
7850.00	0.00	0.0	7779.89	752.33	34.16	0.00	753.10			
7900.00	0.00	0.0	7829.89	752.33	34.16	0.00	753.10			
7950.00	0.00	0.0	7879.89	752.33	34.16	0.00	753.10			
8000.00	0.00	0.0	7929.89	752.33	34.16	0.00	753.10			
8050.00	0.00	0.0	7979.89	752.33	34.16	0.00	753.10			
8100.00	0.00	0.0	8029.89	752.33	34.16	0.00	753.10			
8150.00	0.00	0.0	8079.89	752.33	34.16	0.00	753.10			
8200.00	0.00	0.0	8129.89	752.33	34.16	0.00	753.10			
8250.00	0.00	0.0	8179.89	752.33	34.16	0.00	753.10			
8300.00	0.00	0.0	8229.89	752.33	34.16	0.00	753.10			

SES - Stoner Engineering Software

08-04-D4, Plan 1

Operator		Units		feet, %/100ft		10:21 Wednesday, July 09, 2014 Page 6 of 6				
Field		County				Vertical Section Azimuth 2.6				
Well Name 08-04-D4		State				Survey Calculation Method Minimum Curvature				
Plan 1		Country				Database Access				
Location						MapZone		Lat Long Ref		
Site						SurfaceX		Surface Long		
Slot Name		UWI				SurfaceY		Surface Lat		
Well Number		API				Z Datum				
Project						Surface Z		Ground Level		
DIRECTIONAL WELL PLAN										
MD*	INC*	AZI*	TVD*	N*	E*	DLS*	V. S.*	MapE*	MapN*	SysTVD*
ft	deg	deg	ft	ft	ft	%/100ft	ft	ft	ft	ft
8350.00	0.00	0.0	8279.89	752.33	34.16	0.00	753.10			
8400.00	0.00	0.0	8329.89	752.33	34.16	0.00	753.10			
8450.00	0.00	0.0	8379.89	752.33	34.16	0.00	753.10			
8500.00	0.00	0.0	8429.89	752.33	34.16	0.00	753.10			
8550.00	0.00	0.0	8479.89	752.33	34.16	0.00	753.10			
8600.00	0.00	0.0	8529.89	752.33	34.16	0.00	753.10			
8650.00	0.00	0.0	8579.89	752.33	34.16	0.00	753.10			
8700.00	0.00	0.0	8629.89	752.33	34.16	0.00	753.10			
8750.00	0.00	0.0	8679.89	752.33	34.16	0.00	753.10			
8800.00	0.00	0.0	8729.89	752.33	34.16	0.00	753.10			
8850.00	0.00	0.0	8779.89	752.33	34.16	0.00	753.10			
8900.00	0.00	0.0	8829.89	752.33	34.16	0.00	753.10			
8950.00	0.00	0.0	8879.89	752.33	34.16	0.00	753.10			
9000.00	0.00	0.0	8929.89	752.33	34.16	0.00	753.10			
9050.00	0.00	0.0	8979.89	752.33	34.16	0.00	753.10			
9100.00	0.00	0.0	9029.89	752.33	34.16	0.00	753.10			
9150.00	0.00	0.0	9079.89	752.33	34.16	0.00	753.10			
9200.00	0.00	0.0	9129.89	752.33	34.16	0.00	753.10			
9250.00	0.00	0.0	9179.89	752.33	34.16	0.00	753.10			
9300.00	0.00	0.0	9229.89	752.33	34.16	0.00	753.10			
9350.00	0.00	0.0	9279.89	752.33	34.16	0.00	753.10			
9400.00	0.00	0.0	9329.89	752.33	34.16	0.00	753.10			
9450.00	0.00	0.0	9379.89	752.33	34.16	0.00	753.10			
9500.00	0.00	0.0	9429.89	752.33	34.16	0.00	753.10			
9550.00	0.00	0.0	9479.89	752.33	34.16	0.00	753.10			
9600.00	0.00	0.0	9529.89	752.33	34.16	0.00	753.10			
9650.00	0.00	0.0	9579.89	752.33	34.16	0.00	753.10			
*** RTD (at MD = 9661.00)										
9661.00	0.00	0.0	9590.89	752.33	34.16	0.00	753.10			

RECEIVED
JUL 07 2014
DIV OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

EIVED

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR REENTER

Vernal UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1109IND5351	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY	
2. Name of Operator PETROGLYPH OPERATING CO INC		7. If Unit or CA Agreement, Name and No.	
3a. Address PO BOX 607 ROOSEVELT, UT 84066		8. Lease Name and Well No. UTE TRIBAL 08-04-D4	
3b. Phone No. (include area code) Ph: 435-789-4120 Fx: 435-789-1420		9. API Well No. 43 013 52824	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 1412FNL 636FWL At proposed prod. zone NWNW 660FNL 660FWL		10. Field and Pool, or Exploratory UNDESIGNATED	
14. Distance in miles and direction from nearest town or post office* 5 MILES SOUTHEAST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T4S R4W Mer UBM SME: FEE	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 636		12. County or Parish DUCHESNE	
16. No. of Acres in Lease 4150.00		13. State UT	
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1798		17. Spacing Unit dedicated to this well	
19. Proposed Depth 9175 MD 9091 TVD		20. BLM/BIA Bond No. on file LPM4138153	
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5778 GL		22. Estimated duration 45 DAYS	
22. Approximate date work will start 04/26/2014		23. Estimated duration 45 DAYS	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) LESTER FARNSWORTH Ph: 435-722-2531	Date 02/26/2014
Title DISTRICT MANAGER		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date JUL 02 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #237024 verified by the BLM Well Information System
For PETROGLYPH OPERATING CO INC, sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 03/04/2014 (14LBB1965AE)

NOTICE OF APPROVAL

UDOGM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: PETROGLYPH OPERATING CO INC
Well No: UTE TRIBAL 08-04-D4
API No: 43-013-52874

Location:
Lease No:
Agreement:

SWNW, Sec. 8, T4S, R4W
I109IND5351
N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity
(Notify Ute Tribe Energy & Minerals
Dept. and BLM Environmental
Scientist)

- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.

Construction Completion
(Notify Ute Tribe Energy & Minerals
Dept. and BLM Environmental
Scientist)

- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.

Spud Notice
(Notify BLM Petroleum Engineer)

- Twenty-Four (24) hours prior to spudding the well.

Casing String & Cementing
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov.

BOP & Related Equipment Tests
(Notify BLM Supv. Petroleum Tech.)

- Twenty-Four (24) hours prior to initiating pressure tests.

First Production Notice
(Notify BLM Petroleum Engineer)

- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

Company/Operator: Petroglyph

Well Name & Numbers: Ute Tribal 07-08-D4, Ute Tribal 08-04-D4, Ute Tribal 08-06-D4

CONDITIONS OF APPROVAL:

- Paint all production facilities and equipment, not otherwise regulated (OSHA, etc.), Covert Green.
- All areas of disturbance (including surface pipelines) must have appropriate surface use agreements or approvals in place with the proper owner and/or agency before such action is started.
- The conditions of approval, as set forth by those owners and/or agencies, shall be adhered to.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

- apd_coa Downhole _Ptyph
- Surface casing cement shall be brought up and into the surface.
- Production casing cement shall be brought 400' up and into the surface casing.
- BOPE requirement for drilling production casing segment of wellbore is for a BOP 5m system.
- A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 75 feet.
- All requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
- For the drilling of the surface hole section, operator is required to install an bowl diverter system or rotating head which is connected and discharges to an panic or choke blooie line.
- I109IND5351
- Ute Tribal
- 07-08-D4 (api# 43-013-52873)
- 08-04-D4 (api# 43-013-52874)
- 08-06-D4 (api# 43-013-52876)

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from

under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		9. API NUMBER: 43013528740000
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703	PHONE NUMBER: 208 685-7685 Ext	9. FIELD and POOL or WILDCAT: DUCHESNE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412 FNL 0636 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 08 Township: 04.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/28/2014			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

This well was spud on 7/28/2014 at approximately 12:00 P.M. Using a Bucket Rig provided by Craig's Roustabout Service, Vernal Utah, we plan to set 100' of 16" Conductor. If you have any questions please contact our staff at 435-722-2531.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 July 29, 2014

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 7/28/2014	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: Petroglyph Operating Company Operator Account Number: N 3800
Address: P.O. Box 607
city Roosevelt
state UT zip 84066 Phone Number: (435) 722-2531

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352873	Ute Tribal 07-08-D4		SENE	7	4S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	19386	7/22/2014				
Comments: Please add well to existing Ute Tribal 08-02-D4 Tank Battery. <u>WSTC</u>							

CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301352874	Ute Tribal 08-04-D4		SWNW	8	4S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	99999	19386	7/28/2014				
Comments: Please add well to existing Ute Tribal 08-02-D4 Tank Battery. <u>WSTC</u>							

CONFIDENTIAL

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

RECEIVED

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

JUL 30 2014

Rodrigo Jurado

Name (Please Print)

Signature

Regulatory Compliance Spc

Title

7/30/2014

Date

Div. of Oil, Gas & Mining

CONFIDENTIAL

Print Form

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Capstar 334
Submitted By Levi Jacobs Phone Number 970-361-3271
Well Name/Number Ute Tribal 08-04-D4
Qtr/Qtr SWNW Section 08 Township 4S Range 4W
Lease Serial Number L-109-IND-5351
API Number 43-013-52874

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

Date/Time 08/21/2014 12:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Plan to drill to 2665' casing set @2661. Sent 8/20/14 18:00.

BLM - Vernal Field Office - Notification Form

Operator Petroglyph Operating Rig Name/# Capstar 334
Submitted By Levi Jacobs Phone Number 970-361-3271
Well Name/Number Ute Tribal 08-04-D4
Qtr/Qtr SW/NW Section 08 Township 4S Range 4W
Lease Serial Number L-109-IND-5351
API Number 43-013-52874

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time _____ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

Date/Time 08/28/2014 18:00 AM ☐ PM ☒

BOPE

- ☐ Initial BOPE test at surface casing point
☐ BOPE test at intermediate casing point
☐ 30 day BOPE test
☐ Other

Date/Time _____ AM ☐ PM ☐

Remarks Plan to run 202 jts P-110 casing set @9220.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		9. API NUMBER: 43013528740000			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412 FNL 0636 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 08 Township: 04.0S Range: 04.0W Meridian: U		9. FIELD and POOL or WILDCAT: DUCHESNE COUNTY: DUCHESNE STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/24/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please see attached. <div style="text-align: right; margin-top: 20px;"> Accepted by the Utah Division of Oil, Gas and Mining Date: <u>October 07, 2014</u> By: <u><i>[Signature]</i></u> </div>					
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302			
SIGNATURE N/A		TITLE Regulatory & Compliance Spc DATE 9/22/2014			

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: I-109-IND-5351
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (435) 722-2531		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4
10. FIELD AND POOL, OR WILDCAT: Antelope Creek		

4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412' FNL, 636' FWL COUNTY: Duchesne	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 8 4S 4W U STATE: UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 9/24/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 9/24/2014 Petroglyph Operating plans to complete the well referenced above in 9 stages at the following intervals: 1: 8,570'-8,858', 2: 8,303'-8,488', 3: 8,032'-8,230', 4: 7,778'-7,976', 5: 7,550'-7,725', 6: 7,351'-7,496', 7: 7,132'-7,307', 8: 7,036'-7,052' & 9: 6,743'-6,990'. Intervals will be perforated using 1 Foot guns with either 3 SPF at 120" Phased or 4 SPF at 90" Phased 15-30 foot apart. Fluid used will be Delta 140 18# Gelled Fluid & a Delta 140/Slickwater Hybrid. Sand will be a Resin Coat 20/40 Mesh Sand for stages 1-3 and a natural 20/40 Mesh Sand for stages 4-9. We plan to complete the following:

8570-8858: 56,000 Gals of Fluid Containing 100,000#'s of Resin Coat 20/40 Mesh Sand,
 8303-8488: 56,000 Gals of Fluid Containing 100,000#'s of Resin Coat 20/40 Mesh Sand,
 8032-8230: 56,000 Gals of Fluid Containing 100,000#'s of Resin Coat 20/40 Mesh Sand,
 7778-7976: 56,000 Gals of Fluid Containing 100,000#'s of Ottawa 20/40 Mesh Sand,
 7550-7725: 56,000 Gals of Fluid Containing 100,000#'s of Ottawa 20/40 Mesh Sand,
 7351-7496: 56,000 Gals of Fluid Containing 100,000#'s of Ottawa 20/40 Mesh Sand,
 7132-7307: 56,000 Gals of Fluid Containing 100,000#'s of Ottawa 20/40 Mesh Sand &
 7036-7052: 40,000 Gals of Fluid Containing 50,000#'s of Ottawa 20/40 Mesh Sand
 6743-6990: 56,000 Gals of Fluid Containing 100,000#'s of Ottawa 20/40 Mesh Sand.

All plugs will be drilled out and cleaned out, the well swabbed as necessary. This plan is tentative and will be adjusted as necessary. Exact volumes and amounts will be reported at a later date.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>9/22/2014</u>

(This space for State use only)

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 1-109-IND-5351:

UTE TRIBAL 08-04-D4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc., has provided notice to the owner of contiguous oil and gas leases or drilling units overlying the pool for the aforementioned well to the party below:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202.

Petroglyph Energy, Inc.


Vera Johnson

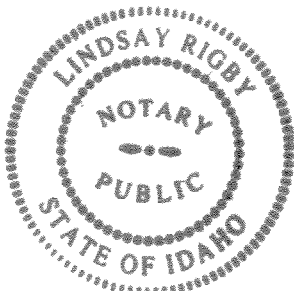
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 11th day of September, 2014, by Vera Johnson.

Witness my hand and official seal.


Notary Public

(SEAL)



PETROGLYPH

EXECUTIVE OFFICES



VIA U.S. MAIL DELIVERY

September 10, 2014

Newfield Production Company / Newfield Exploration Company
Atten: Travis Lindsey
1001 17th Street, Suite 2000
Denver, CO 80202

UTE TRIBAL 08-02-D4

UTE TRIBAL 08-04-D4

Mr. Lindsey:

Petroglyph Operating Company, Inc., is submitting an Application to Commingle from the Wasatch and Green River formations in the referenced wells.

In accordance with State of Utah Division of Oil, Gas and Mining R649-3-22 regarding completion into two or more pools, Petroglyph hereby provides written notice to Newfield Exploration Company/Newfield Production Company of the submission.

Please see enclosed copies of the Application to Commingle for each of the referenced wells.

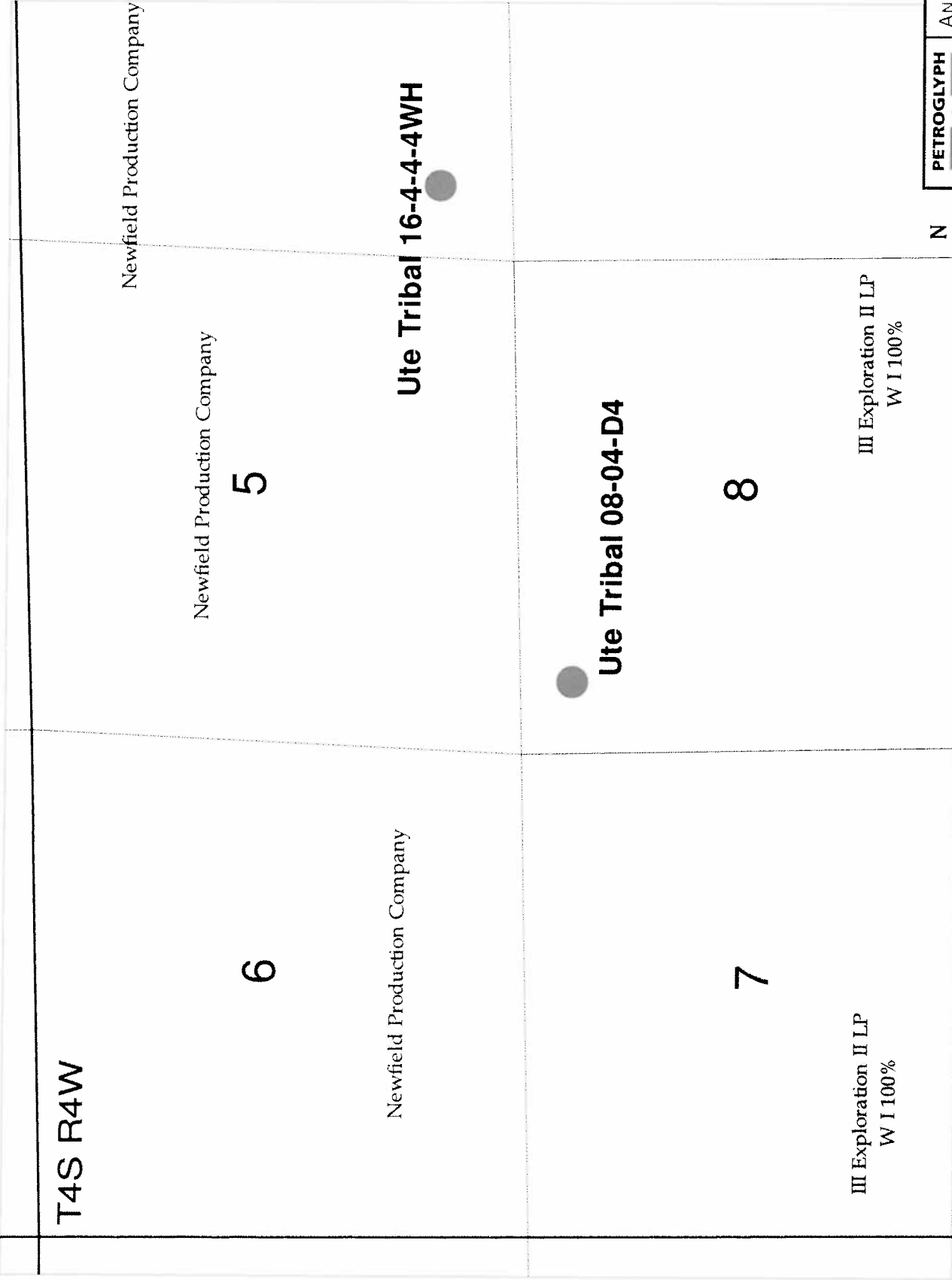
Please contact me at (208) 685-9711 if any questions.

Best Regards,

A handwritten signature in black ink, appearing to be 'Nicole Colby', with a long horizontal line extending to the right.

Nicole Colby
Manager, Land and Regulatory Compliance

PETROGLYPH ENERGY, INC.



PETROGLYPH	ANTELOPE CREEK
DUCHESE COUNTY, UTAH	
Application for Commingling Ute Tribal 08-04-D4	
<small>Prepared by: JG</small>	<small>Reviewed by: JG</small>
<small>5-Sep-14</small>	<small>Ute Tribal 08-04-D4</small>

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9			
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351			
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:			
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:			
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4			
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412 FNL 0636 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 08 Township: 04.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528740000			
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: DUCHESNE			
COUNTY: DUCHESNE		STATE: UTAH			
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION <input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/25/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	TYPE OF ACTION <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>			
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Petroglyph Operating Company, Inc. requests permission to commingle oil and gas production from the Wasatch and Green River Formations on the well referenced above. Petroglyph Operating has made all necessary notifications in accordance with Utah's Oil, Gas, and Mining regulation R649-3-22. Please see the attached Affidavit of Notice and Map.					
<div style="text-align: right;"> Accepted by the Utah Division of Oil, Gas and Mining Date: <u>October 08, 2014</u> By: <u><i>Derek Duff</i></u> </div>					
NAME (PLEASE PRINT) Rodrigo Jurado		PHONE NUMBER 435 722-5302			
SIGNATURE N/A		TITLE Regulatory & Compliance Spc			
DATE 9/11/2014					

AFFIDAVIT OF NOTICE

State of Idaho)
) ss
County of Ada)

I, Vera Johnson, the affiant herein, being of lawful age and duly sworn upon his oath deposes and states as follows:

Vera Johnson is the Land Administrator for Petroglyph Energy, Inc., an Idaho Corporation, with headquarters located at 960 Broadway Avenue, Suite 500, Boise, ID 83706, and is duly authorized to make this Affidavit on behalf of said corporation.

Petroglyph Energy, Inc. has submitted notices to commingle production from the Wasatch and Green River formations in the following well lying within the boundaries of the Antelope Creek Plan of Cooperative Development – BIA Lease UTE 1-109-IND-5351:

UTE TRIBAL 08-04-D4

This Affidavit is made in accordance with Utah's Oil, Gas and Mining regulation R649-3-22. As operator, Petroglyph Energy, Inc., has provided notice to the owner of contiguous oil and gas leases or drilling units overlying the pool for the aforementioned well to the party below:

Newfield Production Company
1001 17th Street, Suite 2000
Denver, CO 80202.

Petroglyph Energy, Inc.


Vera Johnson

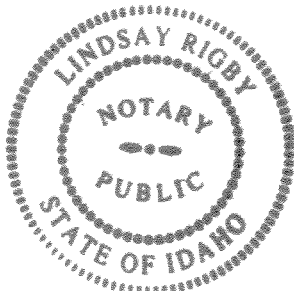
State of Idaho)
) ss
County of Ada)

The above and foregoing Affidavit was subscribed and sworn to before me on the 11th day of September, 2014, by Vera Johnson.

Witness my hand and official seal.


Notary Public

(SEAL)



PETROGLYPH

EXECUTIVE OFFICES



VIA U.S. MAIL DELIVERY

September 10, 2014

Newfield Production Company / Newfield Exploration Company
Atten: Travis Lindsey
1001 17th Street, Suite 2000
Denver, CO 80202

UTE TRIBAL 08-02-D4

UTE TRIBAL 08-04-D4

Mr. Lindsey:

Petroglyph Operating Company, Inc., is submitting an Application to Commingle from the Wasatch and Green River formations in the referenced wells.

In accordance with State of Utah Division of Oil, Gas and Mining R649-3-22 regarding completion into two or more pools, Petroglyph hereby provides written notice to Newfield Exploration Company/Newfield Production Company of the submission.

Please see enclosed copies of the Application to Commingle for each of the referenced wells.

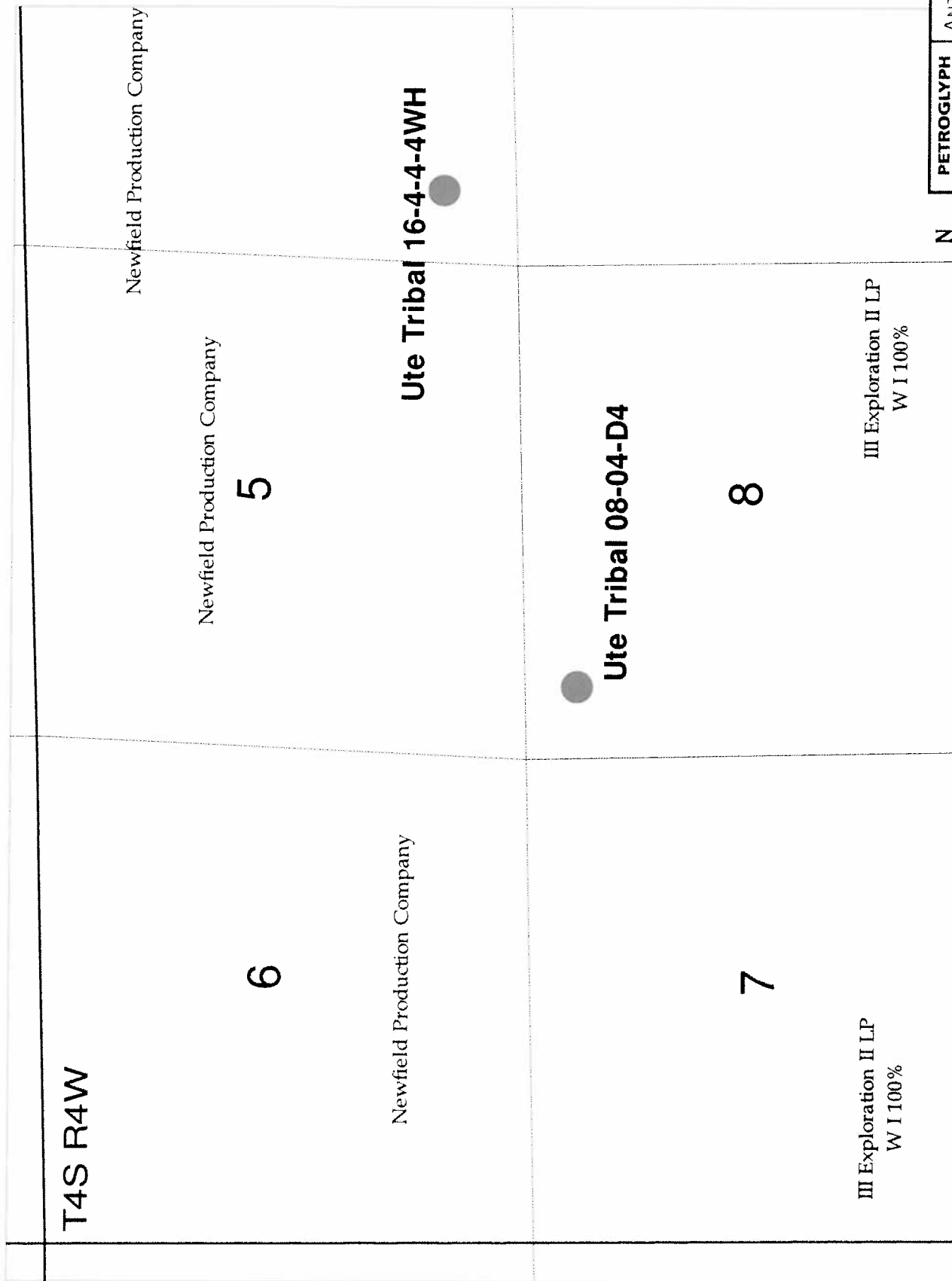
Please contact me at (208) 685-9711 if any questions.


Best Regards,

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Nicole Colby
Manager, Land and Regulatory Compliance

PETROGLYPH ENERGY, INC.



PETROGLYPH 	ANTELOPE CREEK DUCHESE COUNTY, UTAH
Application for Commingling Ute Tribal 08-04-D4	
Prepared by: J.G.	Reviewed by: J.G.
5-Sep-14	



1 inch = 1500 feet

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: PETROGLYPH OPERATING CO		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 960 Broadway Avenue, Ste 500, Boise, ID, 83703		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412 FNL 0636 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 08 Township: 04.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528740000
PHONE NUMBER: 208 685-7685 Ext		9. FIELD and POOL or WILDCAT: DUCHESNE
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input checked="" type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/22/2014
<input type="checkbox"/> SPUD REPORT Date of Spud:	OTHER: <input style="width: 100px;" type="text"/>			
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 February 23, 2015**

NAME (PLEASE PRINT) Rodrigo Jurado	PHONE NUMBER 435 722-5302	TITLE Regulatory & Compliance Spc
SIGNATURE N/A	DATE 2/18/2015	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351
2. NAME OF OPERATOR: Petroglyph Operating Company Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Indian Tribe
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY: Roosevelt STATE: UT ZIP: 84066		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1412' FNL, 636' FWL		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 8 4S 4W U		9. API NUMBER: 4301352874
COUNTY: Duchesne		10. FIELD AND POOL, OR WILDCAT: Antelope Creek
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON	
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: 10/22/2014	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____	
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION		

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

On 9/9/2014 Petroglyph Operating ran GR/CBL and found ETOC @ 33'. On 9/24/2014 we then perforated the following: 6,743-6,991: 48 Holes, 7036-7052: 72 Holes, 7,132-7,308: 48 Holes, 7,351-7,497: 48 Holes, 7,550-7,652: 48 Holes, 7,778-7,977: 48 Holes, 8,032-8,231: 48 Holes, 8,303-8,489: 48 Holes & 8,570-8,859: 48 Holes. We isolated and fracture treated the following intervals:
 8,570'-8,858': 1,867 Bbls of fluid containing 100,280#'s of sand,
 8,303'-8,489': 1,832 Bbls of fluid containing 99,400#'s of sand,
 8,032'-8,230': 1,882 Bbls of fluid containing 88,900#'s of sand,
 7,778'-7,977': 1,773 Bbls of fluid containing 100,860#'s of sand,
 7,550'-7,652': 1,008 Bbls of fluid containing 49,960#'s of sand,
 7,351'-7,497': 1,745 Bbls of fluid containing 100,100#'s of sand,
 7,132'-7,308': 1,957 Bbls of fluid containing 100,320#'s of sand,
 7,036'-7,052': 981 Bbls of fluid containing 49,580#'s of sand, 6,743'-6,990': 1,781 Bbls of fluid containing 98,400#'s of sand
 Isolation plugs used were Halliburton 8K Composite Plugs, fluid used was Dyna LP 22 18# gelled fluid, sand used was 20/40 Mesh Premium White Sand and guns used were Titan 3-1/8", containing 22.7 gram charges, 0.42" EHD, 23.54" TTP @ 3 SPF @ 120* Phased. Second shallowest interval was perforated in a conventional manner @ 4 SPF. The rest of the intervals were perforated @ 3 SPF using 1' Guns shooting one foot (3 Shots) every 20-30 feet. All plugs were drilled out and cleaned out to PBTD, 9,120'. The well was swabbed until a good oil cut was see, then ran a pump on 10/22/2014 and put to pump.

NAME (PLEASE PRINT) <u>Rodrigo Jurado</u>	TITLE <u>Regulatory Compliance Specialist</u>
SIGNATURE 	DATE <u>2/18/2015</u>

(This space for State use only)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____ b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> OTHER _____						5. LEASE DESIGNATION AND SERIAL NUMBER: 1-109-IND-5351			
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME Ute Indian Tribe			
2. NAME OF OPERATOR Petroglyph Operating Company, Inc.						7. UNIT or CA AGREEMENT NAME			
3. ADDRESS OF OPERATOR: P.O. Box 607 CITY Roosevelt STATE UT ZIP 84066				PHONE NUMBER: (435) 722-2531		8. WELL NAME and NUMBER: Ute Tribal 08-04-D4			
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1412' FNL 636' FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 559' FNL 668' FWL NWNW Sec 8 T4S R4W AT TOTAL DEPTH: 626' FNL 650' FWL NWNW Sec. 8 T4S R4W						9. API NUMBER: 4301352874			
						10. FIELD AND POOL, OR WILDCAT Duchesne			
						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 8 4S 4W U			
12. COUNTY Duchesne						13. STATE UTAH			
14. DATE SPUDDED: 7/28/2014		15. DATE T.D. REACHED: 8/28/2014		16. DATE COMPLETED: 10/21/2014		17. ELEVATIONS (DF, RKB, RT, GL): 5,791' RKB			
18. TOTAL DEPTH: MD 9,240 TVD 9,162		19. PLUG BACK T.D.: MD 9,120 TVD 9,042		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) ACTR, SDDSN, Cement Bond Log, Borehole Volume Plot				23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (Submit copy)					
24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 J-55	75	0	113				0	Conductor
12.25	10.75 J-55	40.50	0	2,520		G 315	133	0	
8.75	5.5 P110	17	0	9,220		G 2,195	622	33	CBL
25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2.875	8,899								
26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Green River	6,743	7,652	6,667	7,576	6,743 8,858	0.42	436	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) Wasatch	7,778	8,858	7,701	8,781				Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.									
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL								
6,743'-7,652'	7,472 Bbls of Dynafac HT 25 Gelled Fluid containing 398,360#s of 20/40 Mesh Sand.								
7,778'-8,858'	7,354 Bbls of Dynafac HT 25 Gelled Fluid containing 389,440#s of TLC 20/40 Mesh Sand.								
29. ENCLOSED ATTACHMENTS: <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input checked="" type="checkbox"/> DIRECTIONAL SURVEY <input checked="" type="checkbox"/> OTHER: UDOGM Form 7								30. WELL STATUS: POW	

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/10/2014		TEST DATE: 11/28/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 95	GAS – MCF: 49	WATER – BBL: 149	PROD. METHOD: Rod Pump
CHOKE SIZE: 32/64	TBG. PRESS. 140	CSG. PRESS. 141	API GRAVITY 51.50	BTU – GAS 1	GAS/OIL RATIO 516	24 HR PRODUCTION RATES: →	OIL – BBL: 95	GAS – MCF: 49	WATER – BBL: 149	INTERVAL STATUS: Open

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Used for Fuel

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Mahogany Shale	4,048
				Lower Parachute Creek	4,453
				Garden Gulch	4,906
				Middle Garden Gulch	5,390
				Lower Garden Gulch	5,838
				Douglas Creek	5,979
				Lower Douglas Creek	6,448
				Castle Peak	7,034
				Utaland Butte	7,369
				Wasatch	7,691

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 3/2/2015

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 7

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well name and number: Ute Tribal 08-04-D4API number: 4301352874Well Location: QQ SWNW Section 8 Township 4S Range 4W County DuchesneWell operator: Petroglyph Operating Company, Inc.Address: P.O. Box 607city Roosevelt state UT zip 84066Phone: (435) 722-2531Drilling contractor: Craig EnergyAddress: 5053 South 4625 Eastcity Vernal state UT zip 84078Phone: (435) 781-1366

Water encountered (attach additional pages as needed):

DEPTH		VOLUME (FLOW RATE OR HEAD)	QUALITY (FRESH OR SALTY)
FROM	TO		
0	100	0	No Water Encountered
100	2,507	0	No Water Encountered

Formation tops: 1 _____ 2 _____ 3 _____
(Top to Bottom) 4 _____ 5 _____ 6 _____
7 _____ 8 _____ 9 _____
10 _____ 11 _____ 12 _____

If an analysis has been made of the water encountered, please attach a copy of the report to this form.

I hereby certify that this report is true and complete to the best of my knowledge.

NAME (PLEASE PRINT) Rodrigo JuradoTITLE Regulatory Compliance SpecialistSIGNATURE DATE 8/22/2014



Job Number: UT141436
 Company: Petroglyph
 Lease/Well: Ute Tribal 08-04-D4
 Location: Section 8, T4S, R4W
 Rig Name: Capstar 334
 RKB: 5791
 G.L. or M.S.L.: 5778

State/Country: UT / USA
 Declination: 11.05
 Grid: True
 File name: C:\USERS\JPZDUSE-1\DESKTOP\UT141436.SVY
 Date/Time: 28-Aug-14 / 08:48
 Curve Name: Actual

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 2.50
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
.00	.00	.00	.00	.00	.00	.00	.00	.00	.00
230.00	.31	80.97	230.00	.10	.61	.12	.62	80.97	.13
322.00	.48	98.46	322.00	.08	1.24	.13	1.24	86.31	.22
414.00	.48	87.34	413.99	.04	2.01	.13	2.01	88.82	.10
506.00	.53	36.58	505.99	.40	2.65	.52	2.68	81.39	.47
598.00	1.98	3.76	597.97	2.33	3.00	2.46	3.80	52.22	1.70
691.00	2.68	354.39	690.89	6.10	2.90	6.22	6.75	25.42	.85
784.00	3.12	352.07	783.77	10.77	2.34	10.86	11.02	12.24	.49
876.00	3.69	351.85	875.61	16.18	1.57	16.23	16.25	5.54	.62
980.00	4.79	3.67	979.32	23.82	1.37	23.86	23.86	3.30	1.35
1022.00	5.36	7.14	1021.16	27.52	1.73	27.57	27.57	3.60	1.54
1107.00	6.24	9.38	1105.72	36.02	2.98	36.11	36.14	4.72	1.07
1191.00	7.51	9.64	1189.12	45.93	4.64	46.09	46.17	5.77	1.51
1275.00	8.53	1.43	1272.30	57.57	5.71	57.77	57.86	5.67	1.82

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	Dogleg Severity Deg/100
1360.00	9.01	359.89	1356.30	70.53	5.86	70.72	70.77	4.75	
1444.00	9.54	355.93	1439.21	84.05	5.35	84.21	84.22	3.64	.63
1528.00	9.98	355.93	1521.99	98.26	4.34	98.35	98.35	2.53	.99
1613.00	10.59	359.80	1605.62	113.41	3.79	113.47	113.48	1.91	.52
1697.00	11.51	5.82	1688.07	129.47	4.61	129.55	129.55	2.04	1.08
									1.76
1781.00	12.44	6.79	1770.24	146.79	6.53	146.94	146.94	2.55	
1866.00	11.91	5.86	1853.33	164.61	8.51	164.82	164.83	2.96	1.13
1951.00	11.12	6.52	1936.62	181.48	10.34	181.76	181.77	3.26	.66
2035.00	10.99	7.61	2019.06	197.46	12.32	197.81	197.85	3.57	.94
2119.00	11.12	8.02	2101.50	213.42	14.51	213.85	213.91	3.89	.29
									.18
2203.00	11.65	2.81	2183.85	229.91	16.05	230.39	230.47	3.99	
2288.00	11.29	359.90	2267.15	246.80	16.46	247.29	247.35	3.82	1.38
2372.00	11.21	358.97	2349.54	263.19	16.30	263.65	263.70	3.54	.80
2457.00	11.43	359.23	2432.88	279.87	16.04	280.31	280.33	3.28	.24
2541.00	11.51	358.66	2515.21	296.57	15.73	296.98	296.99	3.04	.27
									.17
2640.00	10.80	358.90	2612.34	315.72	15.32	316.09	316.09	2.78	
2732.00	10.10	1.10	2702.81	332.41	15.31	332.76	332.76	2.64	.72
2823.00	10.20	4.20	2792.39	348.42	16.05	348.79	348.79	2.64	.88
2914.00	11.30	2.70	2881.79	365.36	17.06	365.76	365.76	2.67	.61
3006.00	11.20	359.90	2972.02	383.30	17.47	383.70	383.70	2.61	1.25
									.60
3097.00	10.20	.00	3061.44	400.20	17.46	400.58	400.58	2.50	
3188.00	10.60	3.40	3150.94	416.61	17.95	416.99	416.99	2.47	1.10
3280.00	12.00	4.40	3241.16	434.59	19.19	435.02	435.02	2.53	.80
3371.00	12.30	3.40	3330.12	453.70	20.49	454.16	454.16	2.59	1.54
3462.00	12.40	3.60	3419.01	473.13	21.68	473.62	473.62	2.62	.40
									.12
3553.00	12.60	7.40	3507.86	492.72	23.57	493.28	493.28	2.74	
3645.00	13.30	5.50	3597.52	513.21	25.88	513.85	513.86	2.89	.93
3736.00	13.10	3.40	3686.11	533.92	27.49	534.61	534.63	2.95	.89
3827.00	12.97	2.96	3774.77	554.41	28.63	555.13	555.15	2.96	.57
3918.00	11.25	1.12	3863.74	573.49	29.33	574.22	574.24	2.93	1.18
									.94
4010.00	12.22	359.62	3953.82	592.20	29.44	592.92	592.93	2.85	
4101.00	11.21	358.04	4042.92	610.67	29.08	611.36	611.36	2.73	1.11
4192.00	11.52	359.45	4132.14	628.59	28.69	629.25	629.25	2.61	1.16
4283.00	12.18	.06	4221.20	647.28	28.61	647.91	647.91	2.53	.46
									.74

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		
							Distance FT	Direction Deg	Dogleg Severity Deg/100
4374.00	12.09	359.45	4310.16	666.41	28.53	667.02	667.02	2.45	.17
4466.00	11.78	359.54	4400.17	685.44	28.36	686.02	686.02	2.37	.34
4557.00	10.37	357.16	4489.48	702.91	27.88	703.45	703.46	2.27	1.63
4648.00	9.20	358.70	4579.15	718.36	27.31	718.87	718.88	2.18	1.32
4740.00	8.30	357.50	4670.08	732.35	26.85	732.82	732.84	2.10	1.00
4831.00	7.30	359.10	4760.24	744.69	26.47	745.13	745.16	2.04	1.12
4922.00	6.50	3.80	4850.58	755.61	26.73	756.06	756.08	2.03	1.08
5014.00	6.80	11.70	4941.96	766.14	28.17	766.64	766.66	2.11	1.05
5105.00	7.80	12.00	5032.22	777.45	30.55	778.05	778.05	2.25	1.10
5196.00	7.69	6.92	5122.39	789.54	32.57	790.21	790.21	2.36	.76
5288.00	7.00	6.70	5213.64	801.22	33.96	801.94	801.94	2.43	.75
5379.00	6.10	4.10	5304.04	811.55	34.96	812.30	812.30	2.47	1.04
5470.00	5.00	3.30	5394.62	820.33	35.53	821.10	821.10	2.48	1.21
5561.00	4.10	2.50	5485.33	827.54	35.90	828.32	828.32	2.48	.99
5653.00	3.70	5.20	5577.11	833.78	36.31	834.57	834.57	2.49	.48
5744.00	3.34	6.57	5667.94	839.34	36.88	840.15	840.15	2.52	.41
5835.00	2.37	9.56	5758.83	843.83	37.50	844.66	844.66	2.54	1.08
5927.00	1.89	4.28	5850.76	847.22	37.93	848.06	848.06	2.56	.56
6018.00	1.41	354.97	5941.73	849.83	37.94	850.67	850.67	2.56	.60
6109.00	1.45	346.53	6032.70	852.06	37.58	852.89	852.89	2.53	.24
6201.00	1.10	333.10	6124.68	853.98	36.90	854.78	854.78	2.47	.50
6292.00	.90	330.80	6215.66	855.39	36.16	856.15	856.15	2.42	.22
6384.00	.70	282.00	6307.65	856.13	35.26	856.86	856.86	2.36	.75
6475.00	1.20	222.40	6398.64	855.54	34.07	856.22	856.22	2.28	1.14
6566.00	1.10	213.30	6489.62	854.11	32.95	854.74	854.75	2.21	.23
6657.00	.50	248.70	6580.62	853.24	32.10	853.82	853.84	2.15	.82
6748.00	1.36	336.42	6671.61	854.08	31.30	854.63	854.66	2.10	1.57
6840.00	1.45	330.44	6763.58	856.10	30.29	856.60	856.63	2.03	.19
6931.00	.70	263.90	6854.56	857.04	29.17	857.49	857.53	1.95	1.47
7023.00	.80	215.20	6946.56	856.45	28.24	856.87	856.92	1.89	.68
7114.00	.40	249.50	7037.55	855.82	27.57	856.21	856.27	1.85	.57
7205.00	.35	171.54	7128.55	855.44	27.32	855.81	855.87	1.83	.52
7297.00	.57	156.42	7220.55	854.74	27.54	855.13	855.18	1.85	.27
7388.00	.60	193.60	7311.54	853.86	27.61	854.25	854.31	1.85	.41

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE		Dogleg Severity Deg/100
							Distance FT	Direction Deg	
7479.00	1.10	187.30	7402.53	852.53	27.39	852.91	852.97	1.84	.56
7571.00	1.40	182.60	7494.51	850.53	27.23	850.91	850.97	1.83	.34
7662.00	1.10	183.70	7585.49	848.55	27.12	848.93	848.98	1.83	.33
7753.00	.60	344.10	7676.49	848.14	26.93	848.50	848.56	1.82	1.84
7845.00	.50	191.10	7768.48	848.21	26.72	848.57	848.63	1.80	1.16
7936.00	.79	195.18	7859.48	847.21	26.48	847.56	847.63	1.79	.32
8027.00	1.32	198.17	7950.46	845.61	25.99	845.94	846.01	1.76	.59
8118.00	1.70	196.70	8041.43	843.32	25.28	843.62	843.70	1.72	.42
8210.00	1.90	198.30	8133.39	840.57	24.40	840.83	840.92	1.66	.22
8301.00	2.10	191.10	8224.33	837.50	23.61	837.73	837.83	1.61	.35
8392.00	2.50	192.40	8315.26	833.92	22.86	834.13	834.24	1.57	.44
8484.00	2.60	191.10	8407.17	829.92	22.03	830.09	830.21	1.52	.13
8575.00	2.60	192.90	8498.07	825.88	21.17	826.02	826.15	1.47	.09
8666.00	2.90	191.90	8588.97	821.61	20.24	821.72	821.86	1.41	.33
8758.00	3.00	190.30	8680.84	816.97	19.33	817.03	817.20	1.36	.14
8849.00	3.30	191.00	8771.71	812.05	18.40	812.08	812.26	1.30	.33
8940.00	3.60	190.70	8862.54	806.68	17.37	806.67	806.86	1.23	.33
9032.00	4.00	188.10	8954.34	800.66	16.38	800.61	800.83	1.17	.47
9123.00	4.00	188.10	9045.12	794.38	15.49	794.30	794.53	1.12	.00
Projected To Bit									
9240.00	4.00	188.10	9161.83	786.30	14.34	786.17	786.43	1.04	.00

Job Number: UT141436
 Company: Petroglyph
 Lease/Well: Ute Tribal 08-04-D4
 Location: Section 8, T4S, R4W
 Rig Name: Capstar 334
 State/Country: UT/USA

Declination: 11.05

